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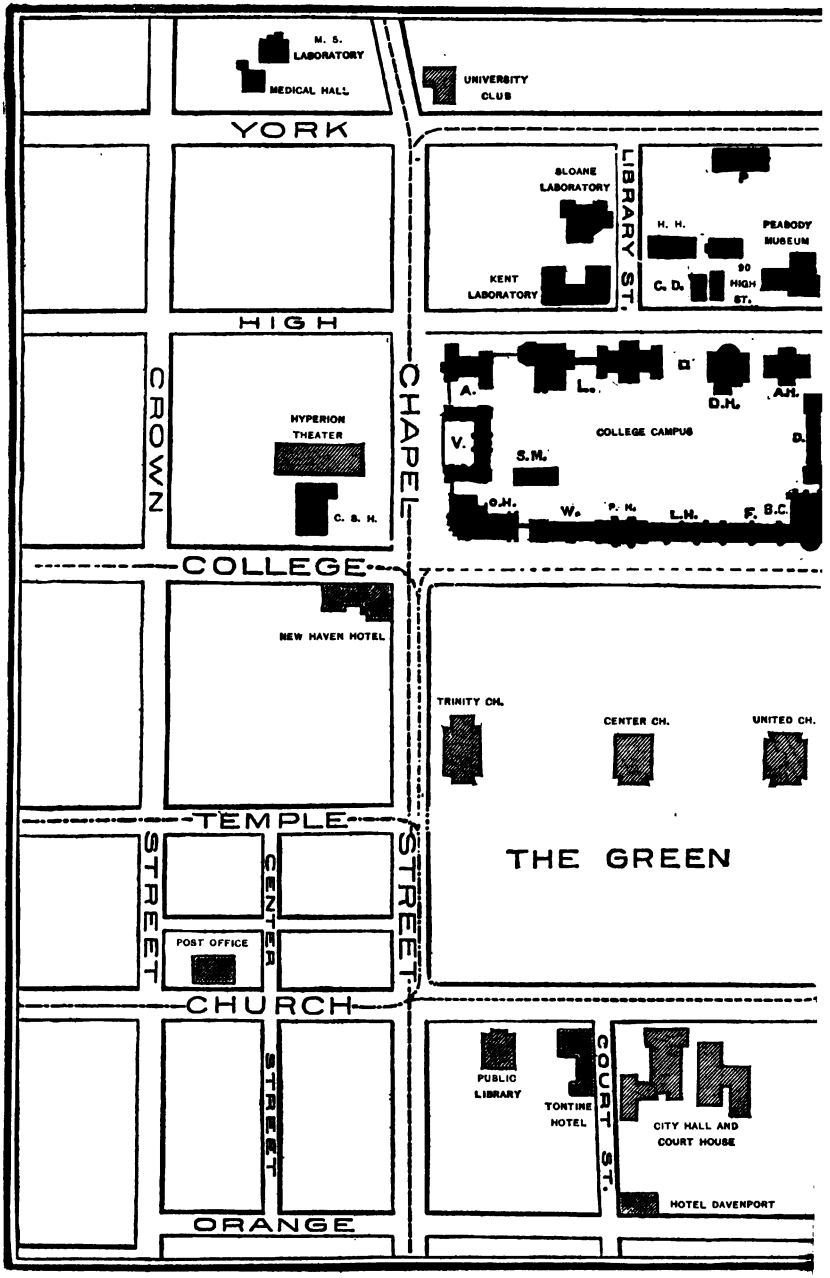

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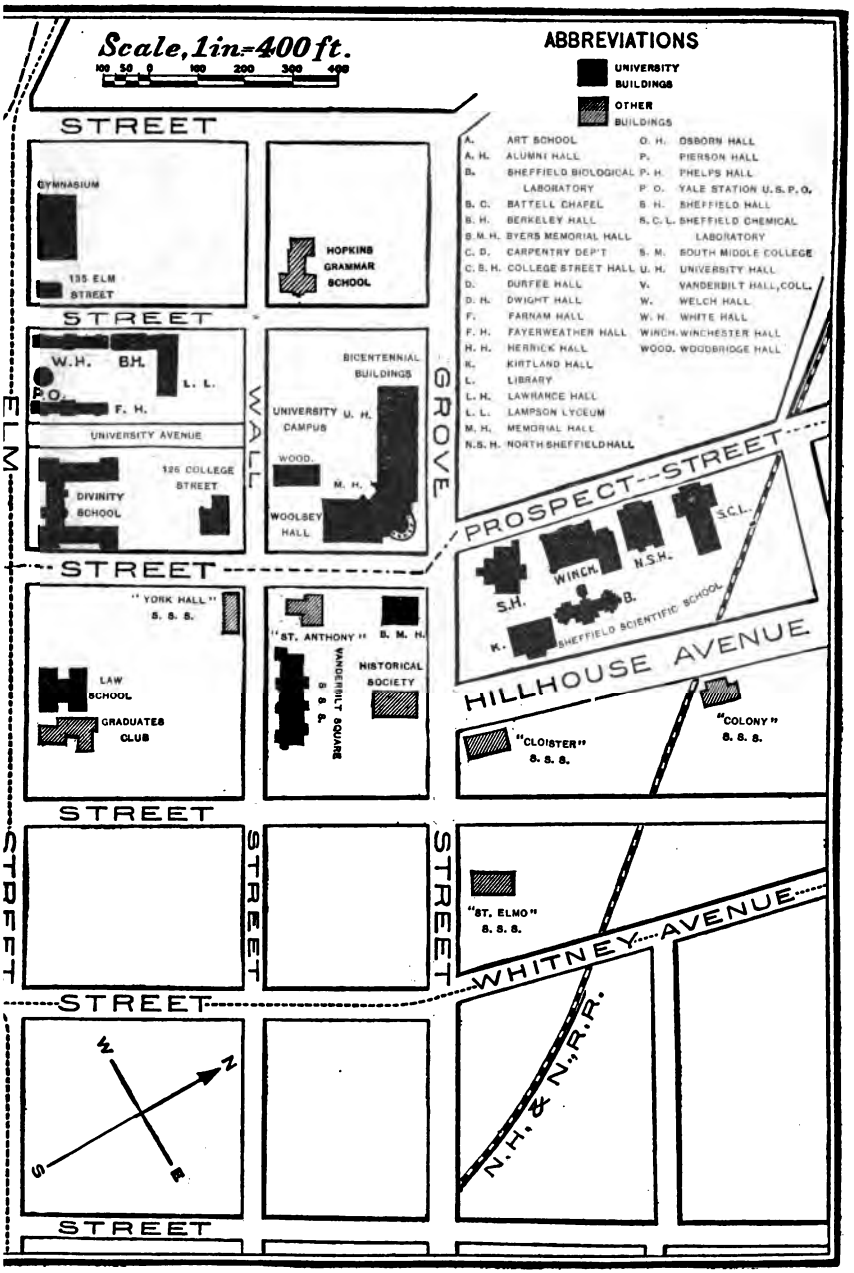

# YALE COLLEGE

## THE ACADEMICAL DEPARTMENT
OF
## YALE UNIVERSITY

1903–1904

NEW HAVEN
THE TUTTLE, MOREHOUSE & TAYLOR COMPANY
1903

## ABBREVIATIONS, OFFICE HOURS, ETC.

A., Absent on leave; B., Berkeley Hall; B. L., Sheffield Biological Laboratory; D., Durfee Hall; E. D., East Divinity Hall; F., Farnam Hall; FW., Fayerweather Hall; L., Lawrance Hall; M., Peabody Museum; N. S. H., North Sheffield Hall; O., Osborn Hall; P., Pierson Hall; S. H., Sheffield Hall; S. L., Sheffield Chemical Laboratory; S. M., South Middle College; V., Vanderbilt Hall; W., Welch Hall; W. D., West Divinity Hall; WH., White Hall; WINCH., Winchester Hall; WOOD., Woodbridge Hall.

The College rooms numbered from 1 to 69 are in Vanderbilt Hall; from 70 to 96 in South Middle College; from 129 to 177 in Farnam Hall; from 201 to 240 in Durfee Hall; from 241 to 282 in Lawrance Hall; from 283 to 330 in Welch Hall; from 331 to 382 in White Hall; from 383 to 422 in Berkeley Hall; from 423 to 470 in Fayerweather Hall; from 521 to 600 in Pierson Hall.

The rooms in East Divinity Hall are numbered from 601 to 654; in West Divinity Hall from 655 to 724. The rooms in Sheffield Hall are numbered from 1 to 21; in North Sheffield Hall from 25 to 58; in the Sheffield Biological Laboratory from 60 to 79; in Winchester Hall from 100 to 135; in the Sheffield Chemical Laboratory from 140 to 162.

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The Treasurer of the University—Woodbridge Hall, 9 A. M. to 1 P. M. (Treasurer's Office—9 A. M. to 5 P. M.)

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The Dean of the College Faculty—135 Elm st., 10.30 A. M. to 1 P. M.

The Registrar of the College Faculty—135 Elm st., 10 A. M. to 1 P. M.

College Bursar's Office—1 Phelps Hall, 9 A. M. to 3 P. M.

Bureau of Self-Help—4 Phelps Hall, 9.30 A. M. to 12.30 P. M.

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For Circulars and general information concerning the College (Academical Department), address THE REGISTRAR OF YALE COLLEGE, 135 Elm st., NEW HAVEN, CONNECTICUT.

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# CALENDAR

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| **1903** | | |
| 24 Sept. | Thursday | FIRST TERM begins. |
| 25 Nov. | Wednesday | THANKSGIVING RECESS begins, 1.20 P. M. |
| 27 Nov. | Friday | RECESS ends, 8 A. M. |
| 16 Dec. | Wednesday | FIRST TERM ends. |
| | | **Winter Vacation** |
| **1904** | | |
| 6 Jan. | Wednesday | SECOND TERM begins. |
| 24 March | Thursday | Junior Exhibition. |
| 30 March | Wednesday | SPRING RECESS begins, 1.20 P. M. |
| 14 April | Thursday | RECESS ends, 8 A. M. |
| 2 May | Monday | John A. Porter Prize Essays due. |
| 6 May | Friday | Berkeley Scholarship Examination. |
| 16 May | Monday | Woolsey Scholarship Examination begins. |
| 16 May | Monday | Winthrop Prize Examination begins. |
| 30 May | Monday | Memorial Day. |
| 1 June | Wednesday | School of the Fine Arts, term ends. |
| 1 June | Wednesday | Anniversary of the Divinity School. |
| 24 June | Friday | DeForest Prize Speaking. |
| 26 June | Sunday | Baccalaureate Sermon. |
| 27 June | Monday | College Class-Day Exercises. |
| 27 June | Monday | Scientific School Class-Day Exercises. |
| 27 June | Monday | Anniversary of the Law School. |
| 28 June | Tuesday | Anniversary Meeting of the Alumni. |
| 28 June | Tuesday | Anniversary of the Medical School. |
| 29 June | Wednesday | COMMENCEMENT. |
| 29 June | Wednesday | Examination for admission begins, 2 P. M. |
| | | **Summer Vacation** |
| 26 Sept. | Monday | Examination for admission begins, 10.30 A. M. |
| 29 Sept. | Thursday | FIRST TERM begins. |
| 21 Dec. | Wednesday | FIRST TERM ends. |

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Mr. FARR, Daily, 12.30 to 1.00; 1.45 to 2.00, 170 F.
Professor IRVING FISHER, Monday and Friday, 10.20, $E_2$ Osborn.
Professor GOOCH, Daily, 12.30 to 1.20, Kent Laboratory.
Professor GOODELL, Tuesday, Thursday and Saturday, 9.30 to 10.00, 15 Phelps.
Professor GRAVES, Monday, Wednesday, and Saturday, 8.30 to 11.00; Tuesday, Thursday, and Friday, 11.00 to 1.00, Marsh Hall.
Professor GREGORY, Tuesday and Thursday, 12.00 to 1.00, 6 Peabody Museum.
Professor GRUENER, Daily, except Saturday, 1.15 to 2.00, 276 L.
Dr. HESS, Daily, 10.00 to 1.00, 135 Elm st.
Professor HOPKINS, Monday, Tuesday, and Thursday, 1.30 to 2.30, 235 Bishop st.
Professor INGERSOLL, Monday, Wednesday, and Friday, 12.30, 311 Crown st.
Dr. JUDD, Daily, 2.00 to 5.00, 6 Herrick Hall.
Professor KELLER, Tuesday and Thursday, 1.30 to 2.30, E Herrick Hall.

Professor KENT, Daily, except Wednesday and Saturday, 10.30, 171 F.
Mr. KITCHEL, Daily, 9.30 to 12.30, 4 Phelps.
Professor KREIDER, Tuesday and Thursday, 11.30, Thursday, 3.00 to 3.30, Sloane Laboratory.
Professor LADD, Monday, Wednesday, and Saturday, 12.00, 275 L.
Professor LANG, Monday, Wednesday, and Friday, 10.30 to 11.20, 244 L.
Mr. LENT, Wednesday, 9.00 to 12.00, 63 Clark st.; Thursday, 4.00 to 5.00, 9 FW.
Professor LEWIS, Tuesday, Thursday, and Friday, 12.30 to 1.00, 133 F.
Dr. MCKENZIE, Daily, except Monday, 11.20, $E_1$ Osborn.
Professor MORRIS, Tuesday, Thursday, and Saturday, 11.20, 13 Phelps.
Dr. NORTON, Tuesday, 9.30 to 10.30; Thursday, 11.30 to 12.00, University Library.
Dr. OSGOOD, Tuesday, Wednesday, and Friday, 11.20; Thursday and Saturday, 12.20, $D_1$ Osborn.
Professor PALMER, Daily, except Saturday, 12.30 to 1.00, 149 Rock ave.; Monday and Friday, 10.20, and Wednesday, 9.20, $F_2$ Osborn.
Professor PECK, Tuesday and Thursday, 11.30, 21 Phelps.
Professor PERRIN, Monday, Tuesday, Thursday, and Friday, 2.00 to 3.00, 136 F.
Dr. I. K. PHELPS, Daily, 10.30 to 11.30, Kent Laboratory.
Professor REED, Daily, 12.30 to 1.00, 351 WH.
Professor REYNOLDS, Monday, Wednesday, and Friday, 12.30, 14 Phelps.
Professor E. L. RICHARDS, Wednesday and Saturday, 9.00 to 10.00, 167 F.
Professor RICHARDSON, Tuesday, 2.00 to 2.15, 284 Orange st.
Dr. ROOT, Daily, 12.20 to 12.45, 8 Phelps.
Professor SANDERSON, Monday, Wednesday, and Friday, 8.30 to 9.20, 3 Phelps.
Professor SCHWAB, Tuesday and Friday, 10.30 to 11.20, University Library.
Professor SEYMOUR, Daily, 11.00 to 12.00, 22 Phelps.
Professor C. H. SMITH, Monday, Tuesday, Friday, and Saturday, 5.00 to 6.00, 243 L.
Professor SNEATH, Wednesday and Thursday, 2.00, 285 Whitney ave.
Professor SUMNER, Daily, 2.00 or 7.00, 240 Edwards st.
Dr. TAYLOR, Monday and Wednesday, 9.30 to 12.30; Tuesday, 10.30 to 12.30, 15 WH.
Professor TORREY, Thursday and Friday, 11.20, 10 FW.
Mr. TROWBRIDGE, Monday, 10.30 to 11.30; Saturday, 11.30 to 12.30, 701 W.D.

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|---|---|
| Professor WARREN, | Daily, except Wednesday and Saturday, 9.30 to 10.30, 153 F. |
| Professor A. M. WHEELER, | Tuesday and Friday, 10.30, $C_2$ Osborn. |
| Professor F. W. WILLIAMS, | Monday, Tuesday, Wednesday, and Thursday, 12.20, $C_1$ Osborn. |
| Professor H. S. WILLIAMS, | Monday and Tuesday, 11.00 to 12.00, Herrick Hall. |
| Professor A. W. WRIGHT, | Monday, Tuesday, Wednesday, and Friday, 11.00 to 12.00, Sloane Laboratory. |
| Dr. HENRY B. WRIGHT, | Daily, 12.20, 10 Phelps. |

## STANDING COMMITTEES

*On Admission*—Professor GRUENER, Chairman, Professors GOODELL, PERRIN, WARREN, REED, Mr. MERRITT, and Dr. HAWKES.

*On Freshman Class Administration*—Mr. BANCROFT, Chairman; Professor BROWNING, Mr. J. C. ADAMS, Dr. HAWKES, Dr. ROOT, and Dr. WRIGHT.

*On the Course of Study*—Professors GOOCH, PHILLIPS, MORRIS, DUNCAN, BOURNE, GRUENER, SCHWAB, LEWIS, and KENT.

*On Changes in Elective Courses*—Professor ADAMS, Mr. MERRITT, and Mr. FARR.

*On Enrollment*—Professors GOOCH, ADAMS, and DUNCAN.

*On Honors*—Professors GOOCH, PALMER, and BOURNE.

*On Public Entertainments*—Professors REYNOLDS, SCHWAB, and LEWIS.

*On the College Choir*—Professors SEYMOUR, PERRIN, and PARKER.

*On the M.A. Degree*—Professors WHEELER and PHILLIPS.

*On the B.A. Degree*—Professors SMITH, DUNCAN, and LEWIS.

*On Semi-Annual Examinations*—Professors GRUENER and INGERSOLL, and Mr. FARR.

*On Undergraduate Scholarships*—Professors GOODELL, DUNCAN, and EMERY.

# YALE COLLEGE

From the date of the original Charter, in 1701, a course of instruction leading to the degree of Bachelor of Arts has been continuously offered at the College ; at first only three years of undergraduate study were required, but before 1710 a four years' course was provided, which has since been maintained.

Until 1813, when a Medical School was organized, no other course of study for a degree was marked out at Yale College ; but with the incorporation of the Medical Institution (as it was originally styled) the older Department began to be called the Academical Institution (or Department), and has continued to be so named until at length, with the growth of other Schools about it and the expansion of the whole into Yale University, the original title of Yale College is again applied distinctively to this Department.

## TERMS OF ADMISSION

ALL CANDIDATES FOR ADMISSION to the Freshman class are examined in the following books and subjects, with the alternatives indicated ; certificates of standing elsewhere are not accepted in place of this examination, except in certain cases when a candidate brings evidence that he has passed the whole of Freshman year in good standing in another college.

### I. ANCIENT LANGUAGES

1. Latin Grammar.

2. Cicero—the orations against Catiline and for Archias ; and, in addition, either the *Milo*, or the *Manilian Law*, or the *Cato Major*, or the *Marcellus* and the 14th *Philippic*.

3. Vergil—the first six books of the *Aeneid* (including prosody) ; and, in addition, either the *Bucolics* or the eighth and ninth books of the *Aeneid*.

4. Ovid—*Metamorphoses*, translation at sight.
5. The translation, at sight, of passages from Nepos and Caesar.
6. The translation into Latin of connected passages of English prose.
7. Roman History to the death of Augustus.
8. Greek Grammar.
9. Xenophon—*Anabasis*, four books. To this paper will be added a passage from some work of Xenophon to be translated at sight.
10. Homer—*Iliad*, three books, with Prosody. To this paper will be added a passage from the poems of Homer, to be translated at sight with the aid of a vocabulary of the less familiar words. Four books of the *Odyssey* may be substituted for three books of the *Iliad*.
11. The translation into Greek of connected passages of English prose, employing the vocabulary and idioms of the first four books of Xenophon's *Anabasis*.

In 1904 and thereafter equivalents will be accepted for the above requirements in Greek—(8, 9, 10, and 11); see page 22.

12. Greek History.

Of the examinations in the ancient languages, those in Latin and Greek Grammar (1 and 8), the translations at sight, and Latin and Greek Composition (6 and 11), are considered most important, and the papers in them are read and marked with special care and strictness. A candidate who shows marked proficiency in these parts of his work is not conditioned for slight deficiency in the translation of prepared passages from Xenophon, Cicero, or Vergil.

The examination in Latin Grammar in 1904 will be based upon the second, third, and fourth orations of Cicero against Catiline. Students who do not read Cicero until the last year of their preparatory course are therefore advised to reserve Latin Grammar for their final examination. The examination in Greek Grammar in 1904 will be based on the first two books of Xenophon's *Anabasis*. *In both Greek and Latin, however, a knowledge of grammatical principles, especially of the body of syntax, will be required.*

Grammatical questions are not asked on other classical papers, except to test the candidate's understanding of a passage, or on poetic forms and constructions (including prosody) in Homer and Vergil.

In order to allow preparatory schools freedom in arranging their courses of work, alternative equivalents are provided in the authors set. Thus the paper on Cicero contains questions on all the orations named in the list above, and on the Vergil paper passages are set from the eighth and ninth books of the *Aeneid* as a substitute for the *Bucolics*. Papers will be prepared also on other parts of Vergil, on other orations of Cicero, on other portions of the works of Xenophon than the first four books of the *Anabasis*, and on other books of Homer than the first three and the sixth of the *Iliad*, and

books i-iv and ix-xii of the *Odyssey*, provided information is given to the Registrar, Mr. A. K. Merritt, before May 1, that such a paper is desired.

In the translations at sight from Greek and Latin, the candidate is expected to show accurate knowledge of the forms and structure of the language, and comprehension of the meaning of the whole passage set.

The passages for translation from English into Greek and Latin call for acquaintance with the vocabulary and style of simple narrative.

Teachers are advised to connect exercises in Greek and Latin Composition, both oral and written, with all the Greek and Latin studies of the preparatory courses, and to begin the exercises in reading at sight early.

## II. MATHEMATICS

13. Algebra (*a*)—Fundamental operations, factoring, highest common factor, least common multiple, fractions, equations of the first degree in one or more unknown quantities, problems which lead to equations of the first degree, powers and roots, fractional and negative exponents, reduction of radicals, including the extraction of the square root of numbers.

14. Algebra (*b*)—Quadratic equations in one or two unknown quantities, ratio and proportion, arithmetical and geometrical progressions, binomial theorem for positive integral exponents.

15. Plane Geometry (*a*)—Demonstrations of theorems and constructions, and demonstrations of problems which are contained in the standard texts; also, simple exercises in construction and demonstration.

16. Plane Geometry (*b*)—Mensuration of the triangle, parallelogram, trapezoid, regular polygons, and circle, and numerical problems relating to the properties of these figures. The problems in this subject, for the most part, will be stated in terms of the metric system of weights and measures.

Special emphasis is laid upon accuracy in reckoning in both Algebra and Geometry.

For the examination in Geometry, the candidates must provide themselves with compasses and rulers.

## III. MODERN LANGUAGES

17. French (*a*) *or* German (*a*), *Elementary.*—The candidate is at liberty to decide for himself in which of the two languages he shall be examined.

[A Freshman who has failed in the admission examination in French must, if he elects a modern language, take German, and *vice versa.*]

French (*a*), Elementary. Candidates are required to translate simple prose selections from French authors (Kuhns' *French Reading* and Mérimée's *Colomba* are suggested), and to show familiarity with the elements of French grammar; that is, with the forms of the articles, adjectives, nouns and pronouns, with the conjugation of the regular and the most frequent irregular verbs, and with ordinary syntactical constructions. Simple English sentences are set to be rendered into French, and a test is made of the principles of pronunciation.

German (*a*), Elementary. The examination is designed to test the proficiency of those who have studied German in the equivalent of a systematic course of five periods a week for one year. It will consist of two parts (which, however, may not be taken separately):—

(i) The translation at sight of a passage of easy prose containing no rare words.

The passages set for translation will be suited to candidates who have read not less than two hundred duodecimo pages of simple German, chiefly narrative prose; this amount includes sight-reading done in class. It is important that all translation be done into clear and idiomatic English.

(ii) The translation into German of simple English sentences, to test the candidate's familiarity with elementary grammar.

Elementary grammar is understood to include the conjugation of the weak and the more usual strong verbs; the declension of articles, adjectives, pronouns, and such nouns as are readily classified; the uses of commoner prepositions; the simpler uses of modal auxiliaries; the elements of syntax and word-order. Proficiency may also be tested by direct questioning.

Practice in pronunciation by reading aloud as much as possible from the texts used in the class is recommended; also, the writing of German from dictation.

## IV. ENGLISH

18. English (*a*): Reading and Practice. A certain number of books is set for reading. The candidate is required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination is usually the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a number set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books.

In preparation for this part of the examination, it is important that the candidate shall be instructed in the fundamental principles of rhetoric.

The books set for this part of the examination are :—

Preliminary Examinations in 1903, and 1904, for the classes entering in 1904, and 1905 :

Shakespeare's *Merchant of Venice* and *Julius Caesar ;* The Sir Roger de Coverley Papers in *The Spectator ;* Goldsmith's *Vicar of Wakefield ;* Coleridge's *Ancient Mariner ;* Scott's *Ivanhoe ;* Carlyle's *Essay on Burns ;* Tennyson's *Princess ;* Lowell's *Vision of Sir Launfal ;* George Eliot's *Silas Marner.*

Preliminary Examinations in 1905, 1906, and 1907, for the classes entering in 1906, 1907, and 1908 :

Shakespeare's *Macbeth* and *Merchant of Venice ;* The Sir Roger de Coverley Papers in *The Spectator ;* Irving's *Life of Goldsmith ;* Coleridge's *Ancient Mariner ;* Scott's *Ivanhoe* and *Lady of the Lake ;* Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur ;* Lowell's *Vision of Sir Launfal ;* George Eliot's *Silas Marner.*

19. English (*b*) : Study and Practice. This part of the examination presupposes more careful study of each of the works named below. The examination is upon subject-matter, form, and structure, and tests also the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination are :—

Final Examinations in 1904, and 1905 :

Shakespeare's *Macbeth ;* Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso ;* Burke's *Speech on Conciliation with America ;* Macaulay's *Essays on Milton and Addison.*

Final Examinations in 1906, 1907, and 1908 :

Shakespeare's *Julius Caesar ;* Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso ;* Burke's *Speech on Conciliation with America ;* Macaulay's *Essay on Milton* and *Life of Johnson.*

For candidates who take the complete examination in English at a single session, this examination covers the books set for the final examination in that year, together with those set for the preliminary examination in the preceding year : for example, the complete examination in 1904 will cover the books set for the final examination in 1904, together with those set for the preliminary examination in 1903.

No candidate is accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs. An entrance condition imposed in English (*a*) is removed only upon evidence of marked improvement in the power to write English correctly.

## EQUIVALENTS FOR GREEK

The following equivalents for Greek will be accepted:

A candidate who wishes to omit Homer must offer Mathematics A1. A candidate who wishes to omit the entire Greek requirement must offer both French (*a*) and German (*a*) and, in addition, one of the three following alternatives:

1. Mathematics A1 and French (*b*) or German (*b*).
2. French (*b*) and German (*b*).
3. German (*b*) and German (*c*).

The requirements in these equivalents are as follows:

### MATHEMATICS A1—SOLID GEOMETRY, PLANE TRIGONOMETRY AND ADVANCED ALGEBRA OR ANALYTICAL GEOMETRY.

Solid Geometry. The usual text demonstrations omitting the theorems on spherical angles and triangles.

Plane Trigonometry. Fundamental definitions and properties of the trigonometric functions with the usual formulae. Application to simple problems of reduction; solution of trigonometric equations; and solution of right and oblique triangles by use of natural or logarithmic tables.

Advanced Algebra. Properties of quadratic equation, permutations and combinations, principles of logarithms, partial fractions; graphical representation of functions of one variable and approximation to incommensurable roots; simple theorems regarding the relation between the roots of an equation and its coefficients and factors.

Analytical Geometry. Plotting of equations in rectangular and polar coördinates; intersection of loci and interpretation of the same; equation of straight line in its various forms and problems involving parallelism and perpendicularity of lines; equation of circle, and conic sections in rectangular and polar coördinates; transformation of coördinates and reduction of general equation of second degree to normal forms.

[A statement in detail of the subject matter of the requirement in Mathematics A1 will be sent on application.]

### MODERN LANGUAGES

French (*a*)—See p. 49.

French (*b*)—In addition to the elementary requirements, candidates who offer French for advanced standing, or for a partial substitution for Greek at entrance, are expected to possess a thorough knowledge of French grammar, the ability to translate connected passages from English into French, and to have read the following texts:

Hugo: *Les Misérables*, pp. 1–124 of Super's edition (Heath & Co.); Zola: *La Débâcle*, pp. 1–155 of Wells' edition (Heath & Co.); Dumas *fils: La Question d'Argent;* Daudet: *Contes*, pp. 1–133 of Cameron's edition (Holt & Co.). Equivalents: Balzac: *Eugénie Grandet*, pp. 1–115 of Bergeron's edition (Holt & Co.) will be accepted for Hugo; Sandeau: *Mlle de la Seiglière* will be accepted for Dumas *fils*.

Practice in reading French aloud and in writing from dictation is recommended.

[Credit will not be given for French (*b*) before French (*a*) is passed.]

German (*a*)—See page 54.

German (*b*)—The examination is designed to test the proficiency of those who have read, in addition to the amount specified under German (*a*), not less than 350 pages of classical and contemporary prose and verse. It will consist of two parts (which, however, may not be taken separately):—

(i) The translation at sight of ordinary German.

(ii) The translation into German of a connected passage of simple English prose, to test the candidate's familiarity with grammar. Proficiency in grammar may also be tested by direct questions.

In the translation into German, candidates will be expected to show a thorough knowledge of accidence, the elements of word-formation, the principal uses of prepositions and conjunctions, and the essentials of syntax, especially the use of the modal auxiliaries, and of the subjunctive and infinitive moods.

The suggestions of the Report of the Committee of Twelve as to reading matter for the Intermediate Course in German should be followed in general. The following selection is recommended: (1) one of Riehl's or Keller's tales; (2) Freytag's *Die Journalisten* or Lessing's *Minna von Barnhelm;* (3) Heine's Poems and Prose (such extracts, e. g., as are contained in *Die Harzreise*, *Buch Le Grand* and *Englische Fragmente* in ordinary school editions of Heine's Prose); (4) Goethe's *Hermann und Dorothea*.

[Credit will not be given for German (*b*) before German (*a*) is passed.]

German (*c*)—The examination is designed to test the proficiency of those who have read, in addition to the amounts specified under German (*a*) and German (*b*), about 500 pages of difficult prose and of good literature in prose and poetry. (The reading should be done with a view to acquiring facility in reading German for advanced work in other subjects, and of gaining an intelligent, general appreciation of the purely literary works read.) The examination will consist of two parts (which, however, may not be taken separately):—

(i) The translation at sight of difficult German prose (not technical) and verse, whether recent or classical.

(ii) The translation into German of a connected passage of ordinary English prose, or the writing of a short theme upon some assigned topic.

The suggestions of the Report of the Committee of Twelve as to reading matter for the Advanced Course should be followed in general, though greater stress should be laid upon acquiring facility in translating and understanding German prose, such as would be necessary for advanced work in other branches.

[Credit will not be given for German (*c*) before German (*a*) and (*b*) are passed.]

Candidates are allowed to divide the examination, with an interval of not less than a school year between the two parts. At the preliminary examination each candidate must submit a definite statement from his principal instructor of the subjects which he is authorized to offer. No preliminary certificate will be furnished unless at least six of the above subjects have been satisfactorily passed.

The regular Examination for Admission to College is held at Alumni Hall, New Haven, on Wednesday, Thursday, Friday, and Saturday (June 29, 30, July 1 and 2, 1904); *attendance is required at the opening of the examination, at* 2 P. M. *on Wednesday*, and the sessions will close at 4.30 P. M. on Saturday. The examination is wholly in writing.

In 1904, examinations (beginning on Wednesday, June 29, at 2 P. M., and closing on Saturday at 4.30 P. M.) for admission to the Freshman class (but not to higher classes) will also be held

in Albany, N. Y., at the Albany Academy;
Andover, Mass., at Phillips Academy;
Asheville, N. C., at the Asheville School;
Auburn, N. Y., at the High School;
Buffalo, N. Y., at the Central High School;
Chicago, Ill., at the Bryant & Stratton Business College, northwest corner of Wabash avenue and Congress street;
Cincinnati, O., at the Hughes High School, 5th street, head of Mound;
Cleveland, O., at the University School;
Columbus, O., at the University School, 187 East Broad street;
Concord, N. H., at St. Paul's School;

in Denver, Col., at the East Denver High School ;
Detroit, Mich., at the Central High School ;
Easthampton, Mass., at Williston Seminary ;
Exeter, N. H., at Phillips Academy ;
Garden City, N. Y., at St. Paul's School ;
Groton, Mass., at Groton School ;
Hartford, Conn., at the Public High School ;
Kansas City, Mo., at the Central High School ;
Lakeville, Conn., at the Hotchkiss School ;
Lawrenceville, N. J., at the Lawrenceville School ;
Louisville, Ky., at the Male High School ;
Milwaukee, Wisc., at the Milwaukee Academy, 471 VanBuren st.;
Nashville, Tenn., at the Bowen School ;
New York City, at the Y. M. C. A. building, 215 W. 23d st.;
Norwich, Conn., at the Free Academy ;
Ossining, N. Y., at Dr. Holbrook's School ;
Philadelphia, Pa., at the Eastburn Academy, 700 North Broad street;
Pittsburg, Pa., at the Shady Side Academy ;
Pomfret, Conn., at the Pomfret School ;
Portland, Oregon, at the Hill Military Academy ;
Pottstown, Pa., at the Hill School ;
St. Louis, Mo., at the Board of Education building, corner 9th and Locust streets ;
St. Paul, Minn., at the High School ;
San Francisco, Cal., at the Urban School, 2124 California street ;
Scranton, Pa., at the School of the Lackawanna ;
Southborough, Mass., at St. Mark's School ;
Tacoma, Wash., at the Tacoma Academy ;
Washington, Conn., at the Gunnery ;
Washington, D. C., in the Washington Loan and Trust Building, 900 F street, N. W.; inquire at room 101 ;
Watertown, Conn., at the Taft School ;
Worcester, Mass., at Worcester Academy.

An examination will be held on the same days at Interlaken, Switzerland, under the supervision of Mr. Howard Copland.

Candidates who propose to be present elsewhere than at New Haven are requested to send their names to the Registrar of the College before June 1. A fee of five dollars (payable at the opening of the sessions) is charged for admission to examinations outside of New Haven. The College is also prepared to hold an examination, at the

above-named time, in any city or at any school where the number of candidates and the distance from other places of examination may warrant it; applications for this purpose must be sent to the Registrar before May 15.

A second examination is held, *in New Haven*, at the beginning of the College year, on Monday, Tuesday, Wednesday, and Thursday (September 26, 27, 28, 29, 1904); candidates for this examination must be present at Alumni Hall at 10.30 A. M. on Monday.

A set of the papers given in the examination in June, 1903, will be found in the appendix. Separate papers given then and in June, 1901 and 1902, may be obtained by teachers without cost by applying to the Registrar of the College, Mr. A. K. Merritt.

## ORDER OF JUNE EXAMINATION

*Wednesday, June 29*

| | |
|---|---|
| Registration, | 2.00— 2.30 |
| English (*a*), | 2.45— 3.45 |
| English (*b*), | 4.00— 5.00 |
| Greek History, | 5.15— 6.00 |

*Thursday, June 30*

| | |
|---|---|
| Latin Grammar, | 8.30— 9.30 |
| Caesar and Nepos, | 9.45—10.30 |
| Latin Composition, | 10.45—11.15 |
| Vergil, | 11.30—12.30 |
| German (*a*), | 2.00— 3.15 |
| Xenophon, | 3.30— 5.00 |
| or | |
| German (*b*), | 3.30— 5.30 |
| Greek Composition, | 5.15— 5.45 |

*Friday, July 1*

| | |
|---|---|
| Plane Geometry (*a*) and (*b*), | 8.30—10.00 |
| Cicero, | 10.15—11.00 |
| Ovid, | 11.15—12.00 |
| Roman History, | 12.15— 1.00 |
| Greek Grammar, | 3.00— 4.00 |
| French (*a*), | 4.15— 5.30 |

*Saturday, July 2*

| | |
|---|---|
| Algebra (*a*) and (*b*), | 8.30—10.00 |
| Homer, | 10.15—11.30 |
| or | |
| Solid Geometry, Plane Trigonometry, and Analytical Geometry or Algebra (*c*), | 10.15—12.15 |
| or | |
| German (*c*), | 10.15—12.15 |
| French (*b*), | 2.30— 4.30 |

## ORDER OF SEPTEMBER EXAMINATION

*Monday, September 26*

| | |
|---|---|
| Registration, | 10.30—11.00 |
| Caesar and Nepos, | 11.00—11.45 |
| Latin Composition, | 12.00—12.30 |
| Vergil, | 2.00— 3.00 |
| Ovid, | 3.15— 4.00 |
| Greek Grammar, | 4.15— 5.15 |
| Greek Composition, | 5.30— 6.00 |
| or | |
| French (*b*), | 4.15— 6.00 |

*Tuesday, September 27*

| | |
|---|---|
| English (*a*), | 8.30— 9.30 |
| English (*b*), | 9.45—10.45 |
| Xenophon, | 11.00—12.30 |
| or | |
| German (*b*), | 11.00— 1.00 |
| Algebra, (*a*) and (*b*), | 2.30— 4.00 |
| Roman History, | 4.15— 5.00 |
| Cicero, | 5.15— 6.00 |

*Wednesday, September 28*

| | |
|---|---|
| Plane Geometry, (*a*) and (*b*), | 8.30—10.00 |
| Greek History, | 10.15—11.00 |
| Homer, | 11.15—12.30 |
| Latin Grammar, | 2.00— 3.00 |
| French (*a*), | 3.15— 4.30 |
| German (*a*), | 4.45— 6.00 |

*Thursday, September 29*

| | |
|---|---|
| German (*c*), | 8.30— 9.45 |
| or | |
| Solid Geometry, Plane Trigonometry, and Analytical Geometry or Algebra (*c*), | 8.30—10.30 |

ADVANCED STANDING—Examinations for admission to advanced standing are held at Alumni Hall on Thursday, Friday, and Saturday, June 30, July 1 and 2; and on Monday, Tuesday, and Wednesday, September 26, 27, and 28.

A student from another college is admitted *ad eundem* only on passing a satisfactory examination on the studies of Freshman year, and upon elective studies sufficient to make up the number of hours of class-room work already completed by the class which he wishes to enter.

Applications for admission to advanced standing *without examination* are received from Bachelors of Arts of other colleges, and from students in other colleges who expect to fall back one or more years in their class rating. Each case is judged on its merits. Either a diploma of graduation or a statement from the Dean or other proper officer of the college from which the student comes must be handed in with each application. Blank forms of application may be obtained by writing to the Dean.

No one is admitted to the Senior class after the beginning of the second term.

AGE—No one is admitted to the Freshman class till he has completed his fifteenth year, nor to an advanced standing without a corresponding increase of age.

TESTIMONIALS—Satisfactory testimonials of good moral character are in all cases required, before a certificate of admission in full is granted. Candidates who have been members of a school at any time within the preceding year are expected to bring a certificate of honorable dismission from this school. Students from other Colleges must present certificates of dismission in good standing.

BOND—Every person must give to the Treasurer, on being admitted, a bond, executed by his parent or guardian, for five hundred dollars, as security for the payment of charges arising under the laws of the College. A blank form for this purpose is furnished at the time of admission.

## COURSES OF INSTRUCTION

A candidate for the degree of Bachelor of Arts must successfully complete courses aggregating sixty hours per week through a year. Freshmen take fifteen hours per week; Sophomores and Juniors, from fifteen to eighteen hours. A student is enrolled in the Freshman class until he has completed at least twelve hours of work and has removed all entrance conditions; he is then enrolled in the Sophomore class until he has completed twenty-six hours, then in the Junior class until he has completed at least forty-one hours; then in the Senior class until he has completed sixty hours. A student who is enrolled as Freshman a second year may, if he desires, take eighteen hours of class-room work.

A student in any of the three upper classes who desires to anticipate a course of the class in which he is enrolled, by passing a special examination in it at the beginning of the year, must apply to the Dean in writing, not later than September 1st, for such an examination and must pay to the Bursar the fee for a special examination. This permission will not be granted to students who are required to take extra hours for absence. A course thus anticipated may, with the consent of the Faculty, be counted as part of the requisite sixty hours. In its place the student may take an equal number of hours from the courses open to his own or to the next higher class, if he is otherwise qualified to do so. Members of the incoming class who desire to avail themselves of this privilege must apply to the Registrar.

Every student must complete before graduation two majors and three minors, and these must be so arranged that not more than two of these five units shall be in one of the divisions named below.

A major unit consists of connected courses of grade A, B and C, aggregating at least seven hours a week; a minor unit consists of connected courses of grades A and B, aggregating at least five hours a week.

Courses to complete the remaining thirty-one hours of the sixty required for the degree of B.A. may be chosen without any other restriction than such as will be found in the printed statement of the individual courses.

I. LANGUAGE AND LITERATURE: comprising Latin; Greek; Classical Archaeology; Sanskrit, Linguistics, and Comparative Philology; Semitic Languages and Biblical Literature; French; Italian; Spanish; German; Scandinavian; English.

II. MATHEMATICS AND THE PHYSICAL AND NATURAL SCIENCES: comprising Mathematics and Astronomy; Physics; Chemistry; Geology, Physical Geography and Mineralogy; Biology, Anatomy and Histology; Botany and Forestry.

III. PHILOSOPHY, HISTORY AND THE SOCIAL SCIENCES: comprising Psychology, Ethics, Logic, Philosophy, and Pedagogics; Ancient, Medieval, and Modern History; Economics, Politics, and the Science of Society.

A student can gain promotion with his class only by passing satisfactorily upon the required number of hours. No course is accepted which has not been satisfactorily passed. If it is not accepted it is not counted as part of the work for the degree, and the deficiency can be made up only by taking in a succeeding year extra work covering the same number of hours.

In Sophomore and Junior years eighteen hours of classroom work may be elected. Opportunity is given also to anticipate one or more courses at the beginning of a year. Thus it is possible for a good student at the end of his third year to have completed the required sixty hours. This opportunity is open only to those who have a high rank in Freshman year, and only by special vote of the Faculty in each case. In Senior year any hours not needed to complete the work for the degree of Bachelor of Arts, may be devoted to study in the professional schools.

SPECIAL HONORS in various groups of studies are offered, to be awarded at the end of the Senior year, in accordance with the scheme on page 127.

## FRESHMAN YEAR

Every member of the Freshman class is required to take five out of the following three-hour courses. Three of the five courses chosen must be the continuation of subjects offered for entrance, counting as separate subjects: (1) English, (2) Mathematics, (3) Latin, (4) Greek, and (5) French or German. This is the only restriction. The anticipation (see p. 29) of a course that so continues a subject offered for entrance is considered as meeting this requirement for that subject.

1. English—*Shakespeare and Victorian Literature*, Course A 1, p. 61.
2. Mathematics—*Solid Geometry, Plane Trigonometry, and Analytical Geometry, or Algebra*, Course A 1, p. 69.
3. Latin—*Livy, Tacitus and Terence*, Course A 1, p. 35.
4. Greek—Three courses are offered from which to choose one:
   (i) *Homer, Herodotus, and Plato*, Course A 1, p. 38.
   (ii) *Lysias, Plato, Euripides, Lyrics*, Course A 2, p. 38.
   (iii) *Homer, Plato, and Euripides*, Course A 3, p. 38.
5. French—*Elementary*, Course A 1, p. 49.
   *Second-Year*, Course A 2, p. 49.
   *Third-Year*, Course B 1, p. 50.
6. German—*Elementary*, Course A 1, p. 54.
   *Second-Year*, Course A 2, p. 54.
7. Chemistry—*Experimental and Descriptive Inorganic*, Course A 1 p. 75.
8. History—*European*, Course A 1, p. 96.

Students may at their option either continue the study of the modern language in which they have passed the examination for admission to college, or begin the study of the other in case they have not previously pursued it. Those who have sufficient knowledge of either language are assigned to classes further advanced.

From November first until April first, work in gymnastics is required of the members of the Freshman class, except those who are in regular training with the recognized athletic teams. This work may be either two periods a week in class drill or four periods of individual exercise, at the option of the student.

## SOPHOMORE YEAR

Every member of the Sophomore Class is required to elect fifteen, and may choose eighteen hours of the following courses:

Latin—*Horace, Catullus, and Prose Lectures.* Course B 1, p. 35.

Greek—*The Athenian Drama.* Course B 1, p. 38.

Two in Literature—*Literature and History.* Course A 1, p. 44.

French—

[One course only may be chosen.]

*Elementary French.* Course A 1, p. 47.
*Sophomore Second-Year French.* Course A 3, p. 47.
*Sophomore Advanced French.* Course B 1, p. 50.
*Junior Electives.* Courses B 2, B 3, p. 50.

German—

[One course only may be chosen.]

*Elementary German.* Course A 1, p. 54.
*Sophomore Second-Year German.* Course A 3, p. 54.
*Sophomore Advanced German.* Course B 1, p. 55.

English—*Rhetoric and History of English Literature.* Course B 1, pp. 59, 61.

Mathematics—

[One course only may be chosen.]

*Calculus,* Course B 1, p. 69.
*Spherical Geometry and Trigonometry,* Course B 2, p. 69.

Physical Science—*Elementary Physics,* Course A 1, p. 73.
*Inorganic Chemistry, Experimental and Descriptive,* Course A 1, p. 75.

Natural Science—*Physical Geography,* Course A 1, p. 77.
*Physiology,* Course A 1, p. 80.

Philosophy—*Psychology, with Logic or Ethics,* Courses A 1, A 2, A 3, pp. 86, 87.
*History of Philosophy (Ancient), with Logic or Ethics,* Courses A 2, A 3, A 4, pp. 86, 87.

History—*European History,* Course A 1, p. 96.

Social Science—*Economics,* Course A 1, p. 104.

An extra elective course in Elocution of one hour per week is offered to the Sophomore class in the second term. This course includes lectures on the Science and the Art of Elocution, practice in speaking and reading by small subdivisions, and private individual practice for those chosen to contest for the prizes in declamation and reading.

When a student makes his choice of Sophomore studies, he is expected also to indicate his plans for Junior and Senior years, and to show how he intends to satisfy the requirements for the Bachelor's degree.

## JUNIOR AND SENIOR YEARS

A member of the Junior class is required to select from the list of courses given on pages 34–117 not less than fifteen nor more than eighteen hours of class-room work per week. A member of the Senior class is required to select a number of hours per week which, in addition to those passed satisfactorily at the end of Junior year, will bring the total number up to sixty hours. But no member of the Senior class may take less than twelve hours.

### ELOCUTION

An extra elective course of one hour per week is offered to the Junior class in the first term in advanced oratorical speaking, or Shakespearean readings. Special training is given in preparation for the TenEyck Prize Speaking in Junior year, and for the DeForest Prize in Oratory in Senior year.

# STATEMENT OF COURSES

1. An asterisk (*) prefixed to a course indicates that written permission must be secured from the instructor to gain admission to the course.

2. Courses included in brackets are omitted during the academic year 1903–1904, but will probably be offered during 1904–1905.

3. The sequence of courses is, in general, indicated by their being graded in the order A, B, and C. In some cases one course presupposes another, or must be taken in connection with another. Restrictions are indicated in brackets after the title of the course, or in the appended statement of the course.

4. Courses not otherwise limited are open to Juniors and Seniors.

## (1) LANGUAGE AND LITERATURE

### ANCIENT LANGUAGES AND LINGUISTICS

#### I. LATIN

Students who desire to continue the study of Latin after Freshman year as part of a general education are advised to take course B 1 in their Sophomore year. Courses B 2 and B 11 are intended especially to meet the needs of such students in Junior and Senior years. Courses B 5 and B 6 are also suitable for the same purpose, but with special reference to biography and Roman religion.

Students who propose to specialize in Latin should take B 1 in Sophomore year, and in Junior year B 5, B 11, C 1, C 4, or C 9. Those who intend to teach should take also B 8 in Junior year and C 6 in Senior year, and such other advanced courses as they can find time for without neglecting other subjects.

A 1 *Livy, Tacitus, and Terence.* [Freshmen.] 3 hrs.

Assistant Professor INGERSOLL, Mr. BANCROFT, and Dr. WRIGHT.

Livy, Books i and ii, *Agricola* and *Germania* of Tacitus, the *Phormio* and *Adelphoe* of Terence.

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B 1 *Horace, Catullus, and Prose Selections.* 3 hrs.

Professor MORRIS and Dr. CLARK.

The *Satires* of Horace, with reference to the life of the author and the society of his time; the Odes, I–II, and the poems of Catullus, as illustrations of two types of Roman lyric poetry; selections from late Latin prose.

B 2 *Latin Satire, Epigram, and Comedy.* 2 hrs.

Professors H. P. WRIGHT and INGERSOLL.

Selections from Juvenal and Martial, with special reference to a study of the private life of the Romans.

Plautus—three or four plays, with study of literary history, form, and influence.

[B 5 *Cicero (Brutus), Quintilian (x and xii), and Tacitus (Dialogus)* [after B 1]. 1 hr.

Professor PECK.

Omitted in 1903–1904.]

B 6 *The Fasti of Ovid* [after A 1]. 2 hrs.

Mr. BANCROFT.

With special reference to Roman religion.

B 8 *Latin Composition* [after A 1]. 2 hrs.

Dr. CLARK.

This course is designed for men who plan to teach the Classics. It is sufficiently exhaustive to serve as final for men wishing to go into teaching immediately after graduation; but it is subsidiary to Course C 6, which should be taken as its complement. Text-book work will be supplemented by original composition and conversation.

[B 10 *Roman Law* [after A 1]. 2 hrs.

Assistant Professor INGERSOLL.

An elementary and general course, for the classical student or the student of law.

Omitted in 1903–1904.]

B 11 *Latin Literature* [after A 1]. 2 hrs.

Assistant Professor INGERSOLL.

A general survey of the whole field, aiming to trace the rise and subsequent development of the various kinds of prose and verse among the Romans, both as to form and as to subject, and to characterize the several periods of the literature in the light of the changing conditions under which the development took place. Lectures, illustrative readings, and direction of the student's private reading. The course is designed especially for those who wish to take their bearings in preparation for special work in this department, and for those who, while their chief interest lies in other departments of study, desire to get a general notion of the range and leading characteristics of a literature in which their previous reading has been more or less desultory.

*B 12 *Cicero.*

Professor MORRIS.

Rapid reading of a number of the Orations of Cicero, sometimes translating, more often reading in Latin.

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[*C 1 *The Dialogus of Tacitus and the Letters of Pliny* [after two years of Latin]. 2 hrs.

Professor PECK.

Literary and social life of Rome in the first century.

Omitted in 1903–1904.]

[*C 2 *Lucretius and Horace* [after two years of Latin]. 2 hrs.

Professor PECK.

The Epistles of Horace, including the "Art of Poetry."

Omitted in 1903–1904.]

C 3 *The Character and Reign of Tiberius* [after B 1]. 2 hrs.
Professor PECK.

Tacitus (*Annals*, i–vi), Suetonius (*Tiberius*), and Velleius Paterculus. Characteristics of "Silver" Latin.

*C 4 *Vergil* [after B 1]. 2 hrs.
Professor MORRIS.

An introduction to Vergil, intended to give students who may expect to teach Latin an acquaintance with the best editions and commentaries and with works on special topics, the Life of Vergil, the Aeneas legend, Vergil's relation to Greek poets and to earlier Roman poetry, mythology, Vergil in the Middle Ages.

A reading knowledge of German is important but not essential for this course.

*C 6 *Latin Prose Writing* [after B 8]. 2 hrs.
Professor OERTEL.

A study of Cicero's *Laelius* from the stylistic point of view. M. Seyffert's edition (2d ed. revised by C. F. W. Müller, Leipzig, 1876) is recommended. Exercises in translation and free composition. Students should provide themselves with H. Menge's *Repetitorium der lateinischen Syntax und Stylistik* (7th ed. 1900) and his *Kurzgefasste Synonymik* (4th ed.). This course is especially designed for those who intend to teach Latin.

A reading knowledge of German is necessary for this course.

*C 9 *Early Latin* [after three years of Latin]. 2 hrs.
Professor PECK.

Study of inscriptions and of the ante-classical literature, based on Allen's *Remnants of Early Latin*, Merry's *Fragments*, and Smith's *Selections*.

The course is largely philological and critical, dealing with the development of forms, constructions and literature, and it is especially commended to those who expect to teach Latin.

This course is open only to those who have done superior work in Latin.

*C 14 *Latin Palaeography* [after three years of Latin]. 2 hrs.
Dr. CLARK.

Facility in reading and dating MSS. is acquired by systematic study of the rich university collection of facsimiles. The origin

of MS. errors and their bearing upon text criticism are constantly observed. The development of late Latin and Medieval literatures is taken up in detail.

For Outline Survey of Ancient History see courses History B 2 and B 3, pp. 96, 97.

For Roman Archaeology see course in Classical Archaeology B 5, p. 42.

## II. GREEK

A 1 *Homer, Herodotus, and Plato.* 3 hrs.

Professor SEYMOUR and Mr. BASSETT.

Four books of Homer's *Odyssey*, Selections from Herodotus's books on the Persian Wars, and Plato's *Apology*.

A 2 *Lysias, Plato, and Euripides.* 3 hrs.

Professor GOODELL.

Selected speeches of Lysias, the *Apology* of Plato and parts of his dialogues, and the *Alcestis* of Euripides.

A 3 *Homer, Plato, and Euripides.* 3 hrs.

Professor REYNOLDS and Dr. WRIGHT.

Four books of Homer's *Odyssey*, the *Apology* of Plato and parts of his dialogues, and the *Alcestis* of Euripides.

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B 1 *The Athenian Drama.* 3 hrs.

Professors PERRIN and REYNOLDS.

The *Seven against Thebes* of Aeschylus, the *Antigone* of Sophocles, the *Medea* of Euripides, and the *Frogs* of Aristophanes, or other representative plays, are read in class, and possibly additional plays assigned for private reading. A course of ten or twelve lectures is given on the Greek theatre, on the origin, evolution, and history of the Greek drama, and its influence on subsequent dramatic literature.

In reading these plays, special emphasis is laid on their analysis as works of literary art, on the myths which they presuppose and develop, on poetic words, forms, dictions, rhythms, and constructions. Grammatical questions are discussed only when they are important for the interpretation and illustration of the thought.

B 2 *Homer* [after A 1]. 2 hrs.

Professor REYNOLDS.

Reading of the entire Odyssey. This course is intended for the general student of literature.

[B 3 *Homer, Theocritus, and the Lyric Fragments* [after B 1]. 2 hrs.

Professor SEYMOUR.

Parts of the *Iliad*, twelve idyls of Theocritus, and the principal fragments of Greek lyric poetry are read rather rapidly, with more attention to their characteristics as literature than to specially linguistic and grammatical questions.

Omitted in 1903–1904.]

[B 4 *Greek Drama* [after B 1]. 2 hrs.

Professor REYNOLDS.

Five or six plays of Euripides are read, with discussion of special topics, and occasional lectures.

Omitted in 1903–1904.]

[B 5 *Plato* [after A 1]. 2 hrs.

Professor REYNOLDS.

The *Charmides* and *Lysis* are read entire, with Purves' Selections from Plato, chiefly with reference to Plato's literary style and the form of the dialogue.

Omitted in 1903–1904.]

B 6 *Greek Testament* [after B 1]. 2 hrs.

Professor SEYMOUR.

A philological study of St. Paul's *Epistles to the Corinthians*, and *to the Galatians*, and of the chief characteristics of the Hellenistic diction.

[B 7 *Lucian: Greek Culture under Marcus Aurelius* [after B 1]. 2 hrs.

Professor REYNOLDS.

A general reading course in prose, with discussion of the life and times of Lucian and of his influence upon later literature. The *Dream*, *Charon*, *Timon*, *Angler*, and *True History* are read, with many minor pieces, including the *Dialogues of the Gods* and *Dialogues of the Dead*.

Omitted in 1903–1904.]

B 8 *Greek Composition and Sight Reading* [after B 1]. 2 hrs.

Mr. BASSETT.

Exercises in composition and in the translation at sight of selections from Xenophon. The course is designed especially for those who intend to teach.

B 9 *Modern Greek* [after B 1]. 1 hr.

Mr. BASSETT.

A practical introduction to the subject, using A. Thumb's *Handbuch der neugriechischen Volkssprache* as outline. Particular attention is given to the colloquial language.

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*C 1 *Aeschylus and Pindar* [after B 1]. 2 hrs.

Professor SEYMOUR.

The *Prometheus* and the *Agamemnon* of Aeschylus are read with special attention to the dramatic structure of the two plays.

In the latter part of the year the principal extant odes of Pindar are read, and a brief sketch of Greek lyric poetry is given.

[*C 2 *Sophocles* [after B 1]. 3 hrs.

Professor GOODELL.

Reading of the seven extant plays with special attention to the artistic form, including style, treatment of myths, management of the action, use of meters, and the like.

Omitted in 1903–1904.]

*C 3 *Advanced Greek Composition.* 2 hrs.

Professor GOODELL.

Exercises in translation and free composition, both previously prepared and extemporaneous. Intended for Graduates and specially qualified Seniors and Juniors.

*C 4 *The Testimonies of Aristophanes, Thucydides, and Plutarch to the career of Pericles* [after B 1]. 2 hrs.

Professor PERRIN.

A study of literary forms (Old Athenian Comedy; History; Biography) and historical tradition. The *Acharnians* of Aristophanes is read entire, as well as other testimonies of Old Athenian Comedy to the career and influence of Pericles; those portions of Thucydides also (especially the first and second books) which bear on the same subject; and finally, the biography of Pericles by Plutarch. The estimates of Pericles by the leading modern historians also is examined.

[*C 5 *Plato and Aristotle* [after B 1]. 2 hrs.

Professor SEYMOUR.

(*a*) The *Phaedo* of Plato, with an introduction to the literary and philosophical study of this author.

(*b*) The *Nicomachean Ethics* of Aristotle, Books i–iv and x, with a study of Aristotle's methods of research and statement.

Omitted in 1903–1904.]

For a course in Old Testament Greek, see course in Biblical Literature, C 4, p. 48.

For Outline Survey of Ancient History see courses in History B 2 and B 3, pp. 96, 97.

## III. CLASSICAL ARCHAEOLOGY

[B 1 *Greek Art—I. Sculpture* [after Greek A 1]. 2 hrs.

(To count as a B course in Greek.)

Dr. BAUR.

Lectures and quizzes by the instructor. Special study of the literary sources by the students. Occasional reports from members of the class.

Omitted in 1903–1904.]

B 2 *Greek Art—II. The Lesser Arts* [after Greek A 1]. 2 hrs.

(To count as a B course in Greek.)

Dr. BAUR.

This course treats briefly the subjects of Greek painting, ceramics, terra-cottas, bronzes and other metal work, coins and gems.

B 3 *Greek Architecture* [after Greek A 1]. 2 hrs.

(To count as a B course in Greek.)

Dr. BAUR.

The various forms of building-construction are successively examined in informal lectures, supplemented by occasional reports from members of the class.

B 4 *Topography and Monuments of Athens* [after Greek A 1]. 2 hrs.

(To count as a B course in Greek.)

Dr. BAUR.

A combination of the historical and the strictly topographical methods of treatment is adopted. The Teubner text of *Pausanias* is made the basis of the instruction.

B 5 *Roman and Etruscan Art* [after Latin A1]. 2 hrs.

(To count as a B course in Latin.)

Dr. BAUR.

This course includes such subjects as Roman architecture, Graeco-Roman sculpture, topography and monuments of Rome and of Pompeii; the domestic arts, such as household utensils, glass, coins, frescoes, mosaics, textiles, terra-cottas. Select topics are investigated by the members of the class.

## IV. SANSKRIT, LINGUISTICS, AND COMPARATIVE PHILOLOGY

B 1 *Elementary Sanskrit* [after Latin A 1 and Greek A 1]. 2 hrs.

Professor HOPKINS.

Instruction in Sanskrit, beginning with Whitney's *Sanskrit Grammar*, and passing on to Lanman's *Reader*. Especially

recommended to Seniors who purpose to take graduate work in classical philology.

*B 2 *Phonetics* [after Latin A 1 and Greek A 1]. 1 hr.
Professor OERTEL.

A general introduction to Phonetics based on a study of the English, French, and German sound-systems. The course is intended to furnish a basis both for the study of the phonology and for the practical teaching of the various languages. Sweet's *Primer of Phonetics* (1890) and Vietor's *Elemente der Phonetik* (3d ed., 1898) should be in the hands of the student.

This course should not be chosen without the consent of the instructor.

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*C 1 *Introduction to Comparative Syntax* [after Latin A 1 and Greek A 1]. 1 hr.
Professor HOPKINS.

For this course a knowledge of Sanskrit is desirable but not necessary, and it may be taken by any classical student.

*C 2 *Linguistics* [after Latin A 1 and Greek A 1]. 2 hrs.
Professor OERTEL.

An introduction to the scientific study of the life and growth of language. This course, which is general in its nature, is intended for all students, of the classics as well as of the modern languages, who wish to become acquainted with the general principles and chief problems of linguistic science. After discussing briefly the topics treated in the instructor's *Lectures on the Study of Language* (Scribners, 1901) the more important types of language-structure will be taken up, together with the fundamental facts of syntax, the problem of the origin of language, etc. In connection with this, selected chapters of Paul's *Principien der Sprachgeschichte*, 3d ed., 1898, and of Wundt's *Völkerpsychologie*, Band I: Die Sprache (2 vols., 1900), will be critically examined. Stress will be laid on the psychological aspect of linguistic phenomena and on familiarizing the student with the more recent literature. No knowledge of Sanskrit is necessary for this course.

## V. SEMITIC LANGUAGES AND BIBLICAL LITERATURE

A 1 *Biblical Literature and History.* 3 hrs.

Professor KENT.

A general course intended for students who wish to gain a definite, systematic knowledge of the literature of the Bible on the basis of the best English translations, and become acquainted with the significant political, social, and religious facts and institutions which constitute its historical background. The text-books used will be Kent's *History of the Hebrew People* and Kent and Riggs' *History of the Jewish People.* These will be supplemented by lectures and syllabi, giving detailed references to the standard literature on each subject.

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B 1 *Historical Origin of Christianity.* 1 hr.

Professor KENT and Mr. LENT.

A course of lectures, supplemented by discussions and papers, on the growth of Judaism, the conditions in the Graeco-Roman world at the beginning of the Christian era, the nature of the historical sources regarding the beginnings of Christianity, the life, methods, and work of the Founder, and the factors which contributed to its development and extension.

B 2 *Israelitish, Jewish and Christian Laws and Institutions.* 2 hrs.

Professors KENT and SANDERS.

First half-year, Professor KENT.

A systematic codification and interpretation of the laws found in the Old Testament. With this classification as a basis, the origin, development, and significance of the social, political, and religious institutions of the Israelites are studied and compared with the usages of other ancient Semitic peoples.

Second half-year, Professor SANDERS.

A corresponding study of the laws and institutions of later Judaism and Christianity and of their historic relationship to each other and to the systems which antedated and influenced them.

[B 3 *Hebrew Poetic and Wisdom Literature.* 2 hrs.
Professors KENT and SANDERS.

First half-year, Professor KENT.

Investigation (on the basis of the English translation) of the characteristics of Hebrew poetry, classification of the different types found in the Bible, comparison with other examples of Semitic poetry, and a careful study of the relation of literary form to interpretation. Special attention will be given to the origin, structure, and interpretation of the Psalter.

Second half-year, Professor SANDERS.

An investigation (on the basis of the English translation) of the forms of Hebrew reflective literature and a comparison with the similar literature of other nations. The course will include an interpretation not only of the Biblical books of Proverbs, Ecclesiastes and Job, but the apocryphal books of Ecclesiasticus and the Wisdom of Solomon, and a consideration both of the wisdom writers as a class, and of the importance of this literature in the history of religious thought.

Omitted in 1903-1904.]

B 4 *The English Bible* [with B 5]. 2 hrs. 2d half-year.
Professor SANDERS.

The history of the gradual growth of the English Bible from its earliest beginnings to the American Revision of 1900. This will include a discussion of the history of the collection and arrangement of the Biblical books and of the various versions which influenced the English version. Upon these results will be based an investigation of the best methods of interpreting and teaching each department of Biblical Literature.

B 5 *The Life and Epistles of Paul* [with B 4].
2 hrs. 1st half-year.
Mr. LENT.

A study of the life of the Apostle Paul, and of the principal Pauline epistles on the basis of the English translation.

[B 6 *Studies in the Gospels.* 1 hr.
Mr. LENT.

A survey of the characteristics of the Gospels which throw light on their origin and interpretation, with a constructive study of the life and teaching of Jesus.

Omitted in 1903-1904.]

B 7 *Hebrew (elementary course).* 2 hrs.

Mr. LENT.

A study of the elements of the Hebrew language in connection with the reading of Genesis i–viii and of selected passages of easy Hebrew.

B 8 *Advanced Hebrew* [after B 7]. 2 hrs.

Mr. LENT.

Reading of the Books of Samuel and a thorough review of the elements of Hebrew grammar and syntax, followed by practice in rapid sight reading.

B 9 *Arabic (elementary course).* 2 hrs.

Dr. PATTON.

The elements of Arabic grammar, including exercises in writing. Rapid reading of easy prose extracts. The text-books used will be Socin's *Grammar* and Brünnow's *Chrestomathy.*

This course affords a thorough introduction to classical Arabic. It is valuable to those who are interested in Semitic study or in Comparative Religion, and is only moderately difficult for one who has already studied Hebrew.

B 10 *General Introduction to Semitic Philology.* 1 hr.

Professor TORREY.

A general view of the Semitic languages and peoples, including a brief survey of their literatures. No previous knowledge of the Semitic languages is required for this course, though some acquaintance with at least the Hebrew language is desirable.

B 11 *Pauline Epistles* [with B 12]. 3 hrs. 1st term.

Professor BACON.

Critical interpretation of Galatians with comparison of the other major epistles. The work of the class with commentaries and exegetical apparatus followed by the instructor's critical and exegetical summary. Essays by the class on special points of exegesis and Pauline doctrine.

B 12 *Synoptic Gospels* [with B 11]. 3 hrs. 2d term.

Professor BACON.

Similar study of Mark with comparison of Matthew and Luke. Questions of a historico-critical character bearing on the life of Christ mainly discussed and summarized by the instructor. Critiques by the class of standard lives of Christ.

B 13 *Christological Epistles* [with B 14]. 1 hr. 1st term.

Professor BACON.

Lectures on Ephesians and related epistles of Paul, aiming to show the history and type of the higher Christology. Essays by the class on questions of authenticity, etc.

B 14 *New Testament Encyclopaedia* [with B 13]. 1 hr. 2d term.

Professor BACON.

Lectures on the field and apparatus of New Testament study, philology, archaeology, textual and higher criticism. Open only to those who take this study.

Courses B 11–14, in conjunction with Professor Stevens's course in *Theism and Apologetics*, p. 93, are intended for those who desire to anticipate the work of the first year in the Theological department.

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*C 1 *The Social Life of the Arabs.* 1 hr.

Dr. PATTON.

Investigation of the institutions and usages of Arab society, with special comparative reference to similar institutions and usages among the ancient Hebrews.

[*C 2 *The Discovery and Decipherment of the Ancient Inscriptions.* 1 hr.

Professor KENT.

A review of the history of excavations in ancient Assyria, Babylonia, Syria, and Egypt, with a study of the problems and methods of the modern excavator. A survey of the different forms and types of Semitic and Egyptian inscriptions and the history of their decipherment.

Omitted in 1903-1904.]

*C 3 *Biblical Seminary.* 2 hrs.

Professor KENT.

A course intended to train students for patient, accurate, and independent investigation of Biblical and cognate questions. It is open only to those who have a general acquaintance with the field of Biblical history and literature.

During 1903–1904 the origin, date, analysis and value of the Old Testament and apocryphal historical writings will be critically studied.

*C 4 *The Greek Old Testament.* 2 hrs. 2d half-year.

Professor TORREY.

A careful reading of the First Book of Maccabees, using Swete's text (*The Old Testament in Greek*, vol. iii).

The course aims to introduce the student to the literary and historical problems which center around this book, as well as to familiarize him with an important type of Hellenistic Greek. It is open to those who have at least an elementary knowledge of Hebrew.

# MODERN EUROPEAN LANGUAGES AND LITERATURES

## ROMANCE LANGUAGES

## VI. FRENCH

The courses in French are graded as follows:

| GRADE A. | GRADE B. | GRADE C. |
|---|---|---|
| Second-Year French. Either Freshman, or Sophomore Second-Year, or Course A 4. | Sophomore Advanced. Literature of Nineteenth Century. Reading Course. | History of Literature (in French). Molière (in French). |

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A 1 *Elementary French.*
[Freshmen and Sophomores.] 3 hrs.

Mr. FARNSWORTH and Dr. CURDY.

A careful study of the main facts of French Grammar and practice in pronunciation. As soon as possible the reading of easy French prose is taken up.

A 2 *Freshman French.* 3 hrs.

Professor WARREN, Dr. MCKENZIE, Mr. FARNSWORTH, and Dr. CURDY.

See statement under course A 3.

A 3 *Sophomore Second-Year French.* 3 hrs.

Mr. FARNSWORTH and Dr. CURDY.

Reading from standard French authors; a short course in French syntax accompanied by exercises in composition and oral practice.

A 4 *Second-Year French* [after A 1].
[Juniors and Seniors.] 3 hrs.
Dr. McKENZIE.

Reading from French authors, mainly of the nineteenth century.

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B 1 *Sophomore Advanced French.* 3 hrs.
Assistant Professor SANDERSON.

French Prose and Poetry. Composition. Masterpieces of the last three centuries are read. Also French prose and verse are read without translating. Division I will be *conducted in French.*

*B 2 *Reading Course.* 1 hr.
Professor WARREN.

For students who have done satisfactory work in A 2, 3 or 4. Consultation with the instructor is required.

B 3 *French Literature of the Nineteenth Century*
[after A 2, 3 or 4]. 2 hrs.
Assistant Professor SANDERSON.

A study of French literature from 1800 to the present day. The first half of the year will be given up to V. Hugo. Afterwards G. Sand, Balzac, Michelet, Renan, etc., will be read and studied, as time will allow.

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*C 1 *History of French Literature* [after a B course]. 3 hrs.
Assistant Professor SANDERSON.

A study of French literature from the origins to 1900. Only works written in modern French will be read, the matter previous to the seventeenth century being treated in lectures. The course will be *conducted in French.*

*C 2 *Molière* [after C 1 or its equivalent]. 1 hr.
Assistant Professor SANDERSON.

A linguistic and literary study of some of Molière's best plays. The course will be *conducted in French.*

## VII. ITALIAN

The courses in Italian are graded as follows:

| Grade A. | Grade B. | Grade C. |
|---|---|---|
| Elementary. | Dante. | Petrarch and Boccaccio. |

A 1 *Italian (Elementary)*
[after two years of French or its equivalent]. 3 hrs.
Dr. McKenzie.

Stress will be laid on the acquisition of a good pronunciation and on such a mastery of the grammar as shall lead to a ready and accurate reading knowledge. Grandgent's *Italian Grammar* and *Italian Composition;* reading from modern authors.

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B 1 *Dante's Life and Works* [after A 1]. 2 hrs.
Dr. McKenzie.

This is primarily a literary course.

After some introductory lectures on Italian poetry previous to Dante, the *Vita Nuova* and selections from the *Divina Commedia* will be read and explained.

Students will provide themselves with Casini's edition of *La Vita Nuova* (Firenze, 1891), Fraticelli's edition of *La Divina Commedia* (Firenze, 1898), and Gardner's *Dante* (The Temple Series), 1900.

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[*C 1 *Petrarch and Boccaccio.* 2 hrs.
Dr. McKenzie.

A study of the Italian writings of Petrarch and Boccaccio, and of their influence on the humanistic movement. Rigutini's *Le Rime di Francesco Petrarca* (Milano, Hoepli, 1896); Fornaciari's *Novelle scelte dal Decamerone di G. Boccaccio* (Firenze, Sansoni, 1889).

This course is primarily for graduates, but is open also to properly qualified undergraduates.

Omitted in 1903–1904; given in alternate years.]

## VIII. SPANISH

The courses in Spanish are graded as follows:

| GRADE A. | GRADE B. | GRADE C. |
|---|---|---|
| Elementary. (At least one year of French or its equivalent is required.) | 19th Century. Reading and Composition. | Literature of the 16th and 17th Centuries. General View of Spanish literature. |

A 1 *Elementary Spanish.* 3 hrs.

Professor LANG and Dr. WAGNER.

In this course, stress will be laid on the acquisition of a good pronunciation, and on such a mastery of the grammar as shall lead to a ready and accurate reading knowledge, which is the leading aim of the instruction.

Knapp's *Spanish Grammar;* Alarcón's *El Capitán Veneno* and, if time permit, some of Perez Galdós' *Episodios nacionales* will be used as text-books.

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B 1 *Spanish Prose of the Nineteenth Century* [after A 1]. 2 hrs.

Professor LANG.

The object of this course is to give the student fluency in reading Spanish. In addition to the reading done in the class-room, a number of texts will be assigned for outside study. The following will be among the works to be read: Perez Galdós, *Doña Perfecta;* Fernan Caballero, *La Gaviota;* Alarcón, *El Escándalo;* Valdés, *La Alegría del Capitán Ribot;* Coloma, *Pequeñeces;* Juan Valera, *A Vuela Pluma; Artículos literarios y políticos.*

B 2 *Reading and Composition in Spanish* [after A 1]. 2 hrs.

Dr. WAGNER.

This course is designed for those who require the use of Spanish for commercial purposes. The writing of letters and the reading of commercial papers will be especially considered.

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[*C 1 *Spanish Prose of the Sixteenth and Seventeenth Centuries.* 2 hrs.

Professor LANG.

This course is open only to students who have taken course B 1, or who shall satisfy the instructor as to their fitness to take

it by passing a special examination. *Lazarillo de Tormes*, Cervantes' *Don Quijote* and *Novelas Ejemplares*, etc., will be read in class, while additional work will be assigned for private study. The student's attention will be directed to the relation of Spanish literature in this period to other literatures, especially those of France and England.

Omitted in 1903–1904.]

*C 2 *The Spanish Drama of the Sixteenth and Seventeenth Centuries* [after two years of Spanish]. 2 hrs.

Professor LANG.

This course will consist of lectures in connection with the reading in class of selected plays by Lope de Vega, Tirso de Molina, Calderón, etc. Work will be assigned for reports to be made in class.

*C 3 *General View of Spanish Literature* [after two years of Spanish]. 1 hr.

Dr. WAGNER.

The aim of this course is to give the student an outline of the development of Spanish literature. In addition to lectures and the reading of classical texts in the class-room, outside reading will be required. An extra hour may be given at the option of the instructor.

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COURSES IN THE GERMANIC LANGUAGES

Students who have already had but one year of German and wish to continue its study, should choose course A 4.

Students who have already had but two years of German and wish to continue its study, should choose among courses B 2, B 4 and B 5, but have course B 3 also open to them. Courses B 2, B 4 and B 5 are intended to be parallel courses differing in subject-matter and vocabulary, and choice between them should be made according to the interest in one or the other subject-matter and vocabulary.

Students who have already had three years of German should choose among courses B 3, C 1, C 2, and C 4, but have courses B 2, B 4 and B 5 also open to them.

Courses C 3, C 5, C 6, C 7, C 8, C 9, and C 10 are primarily graduate courses, and are not to be chosen without the previous advice and consent of the instructor.

Of the courses in Scandinavian, in reference to which Professor Palmer may be consulted, courses A 1 and A 2 are open only to those who have had at least one year of German; course C 1, primarily a graduate course, is not to be chosen without the previous advice and consent of the instructor.

## IX. GERMAN

The courses in German are graded as follows:

| Grade A. | Grade B. | Grade C. |
|---|---|---|
| Second-Year German. Either Freshman, or Sophomore Second-year, or Course A 4. | Sophomore Advanced. Prose Reading. Composition. Classical Drama. Literature of 19th Cent. | Goethe. Hist. of Literature and *all* graduate courses. |

A 1 *Elementary German.* [Freshmen and Sophomores.] 3 hrs.

Mr. Farr, Mr. Baker, and Mr. Ward.

Grammar. Translation from German into English of simple narrative prose. Elementary exercises in translating into German. Practice in pronunciation.

The course is intended to give to the student a knowledge of such grammatical elements as will enable him to read easy German at sight, and to put easy English sentences into German. The reading will be of simple narrative prose.

This course cannot be taken later than Sophomore year.

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A 2 *Freshman German.* 3 hrs.

Professor Gruener and Mr. Ward.

See statement of course A 4.

A 3 *Sophomore Second-Year German.* 3 hrs.

Mr. Baker.

See statement of course A 4.

A 4 *Second-Year German.* [Juniors and Seniors.] 3 hrs.
Professor GRUENER.

Reading of short stories and selections from more difficult prose and poetry; practice in writing German; study of word-formation. Students who have already had one year of German, and wish to continue its study, will choose this course, which is open only to those who have taken elementary German in Freshman or Sophomore year, and to those who have passed the admission examination in German.

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B 1 *Sophomore Advanced German.* [Sophomores.] 3 hrs.
Professor PALMER and Mr. FARR.

Either *a* or *b* may be taken, but *not both.*

*a* Professor PALMER.

*German Drama.*

Rapid reading of dramas of the eighteenth and nineteenth centuries. Lessing's *Nathan der Weise*, Goethe's *Götz von Berlichingen* and *Iphigenie auf Tauris*, Schiller's *Die Braut von Messina* and Kleist's *Prinz Friedrich von Homburg* will be taken in this order, and then, as time allows, one drama each of Grillparzer, Hebbel and Wildenbruch, while Sudermann's *Johannes* and Hauptmann's *Die Versunkene Glocke* will be read at the end of the year.

*b* Mr. FARR.

*German Prose.*

Rapid reading of selections from history, political writings, and literary criticism taken from contemporaneous sources. The object of the course will be to acquaint the student more fully with the historical and critical vocabularies and styles.

Weekly exercises throughout the year in German composition.

B 2 *Prose of Modern Historians and Critics* [after two years of German]. 2 hrs.
Mr. FARR.

Rapid reading of selections from history, political writings, and literary criticism. The object of this course will be to acquaint the student more fully with the historical and critical vocabularies and styles.

*B 3 *German Composition and Conversation.* 3 hrs.

Mr. FARR.

For practice in speaking and writing. The course, conducted in German, is especially intended for those who look forward to teaching German and open to those only who have done superior work in German. Translation into German of narrative prose and of selections from history and literature; during the second term, original themes; special topics are assigned for discussion in German. This course is not to be chosen without the previous advice and consent of the instructor.

B 4 *Classical German Drama* [after two years of German]. 2 hrs.

Professor GRUENER.

Rapid reading and literary study of Lessing's *Nathan der Weise*, Goethe's *Götz von Berlichingen* and *Iphigenie auf Tauris*, and Schiller's *Wallenstein's Tod*. Lectures on the literature of the classical period with especial reference to the development of the German drama. The course is not open to those who have taken B 1*a*.

B 5 *German Literature of the Nineteenth Century* [after two years of German]. 2 hrs.

Mr. FARR.

This course is designed to give the student a survey of German literature after the death of Goethe. Representative works of the best known authors will be read in class, and occasional lectures will be given to show the development of German literature during the nineteenth century.

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C 1 *Goethe, Life, Shorter Poems and Faust* [after a B course or its equivalent]. 2 hrs.

Professor PALMER.

Together with outline study of Goethe's life a large number of his shorter poems will be read in chronological order, and then particular attention given to the translation and interpretation of *Faust* (both parts).

C 2 *Goethe, Prose Works* [with or after C 1]. 1 hr.

Professor PALMER.

Reading and discussion of Goethe's more important prose works and utterances in letters, journals, and conversations.

*C 3 *German Literature of the Reformation Period (1500–1624).* 3 hrs.

Professor GRUENER.

The development of German literature will be studied from the beginning of the Reformation to the time of Opitz. Characteristic works of the important writers of the period will be read, chiefly for literary purposes, though also with reference to the political, social, and religious conditions of the times.

*C 4 *History of German Literature, 1624–1832* [after a B course or its equivalent]. 2 hrs.

Professor PALMER.

The development of German literature will be studied from the time of Opitz to Goethe's death. The text-books will be: Kluge's *Geschichte der deutschen National-Litteratur*, Scherer's *History of German Literature*, Max Müller's *German Classics*, and Hillebrand's *German Thought from the Seven Years' War to Goethe's Death.*

[*C 5 *Introduction to Germanic Philology.* 2 hrs.

Professor PALMER.

A course introductory to the general study of Germanic philology, dealing with its history, methods, fields, and fundamental facts. The basis of the work will be Paul's *Grundriss der Germanischen Philologie*, of which portions will be read, discussed and supplemented by informal lectures.

Omitted in 1903–4].

*C 6 *Gothic.* 2 hrs.

Professor PALMER.

An introductory course, especially for those intending to study German or English historically, in the study of Gothic and its phonological relations both to earlier Indo-Germanic and to later Germanic languages. Braune's *Gotische Grammatik*, or Streitberg's *Gotisches Elementarbuch*, Heyne's *Ulfilas*, Streitberg's

*Urgermanische Grammatik*, or Dieter's *Altgermanische Dialekte*, and Henry's *Comparative Grammar of English and German.*

*C 7 *Old High German.* 3 hrs.

Professor CORWIN.

A rather detailed course in the oldest High German dialects and literature. Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch* and the collateral literature for reference.

[*C 8 *Middle High German.* 3 hrs.

Professor GRUENER.

Hartmann; *Der arme Heinrich* and *Iwein. Nibelungenlied.* Selected poems of Walther von der Vogelweide. Selections from Wolfram von Eschenbach's *Parzival.* Lectures and papers.

Omitted in 1903–1904.]

[*C 9 *History of New High German.* 2 hrs.

Professor CORWIN.

The earlier periods of the language will first be surveyed for the purpose of gaining a comprehensive view of the chief linguistic phenomena and their causes. Upon this basis a more special study will be made of the origin and development of New High German.

Omitted in 1903–1904.]

*C 10 *Early Dramatic Literature of Germany.* 3 hrs.

Professor PALMER.

Studies in the dramatic literature of the sixteenth and seventeenth centuries in Germany.

## X. SCANDINAVIAN

Courses in the Scandinavian languages and literatures are graded as follows:

| GRADE A. | GRADE C. |
|---|---|
| Elementary Norwegian. | Old Norse. |
| Elementary Swedish. | |
| (At least *one* year of German, or its equivalent, is presupposed.) | |

[A 1 *Norwegian and Danish.* 2 hrs.

The object of this course is to lay the foundation for a reading and practical knowledge of the language. Together with the study of the grammar, there will be read selections from the writings of modern authors.

Omitted in 1903-1904, but will be given in 1904–1905.]

[A 2 *Swedish.* 2 hrs.

The object of this course is to lay the foundation for a reading and practical knowledge of the language. Together with the study of the grammar, there will be read selections from the writings of modern authors.

Omitted in 1903–1904.]

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[*C 1 *Old Norse (Icelandic).* 3 hrs.

Grammar, and reading in the Sagas and the Elder Edda.

Omitted in 1903–1904, but will be given in 1904–1905.]

## XI. ENGLISH

### COURSES IN RHETORIC

*Note.* Course B 1 is a necessary preliminary to any other course in composition. All the other B courses in rhetoric, except B 3, are open to both Juniors and Seniors who have completed B 1.

B 1 *Rhetoric* [with English B 1]. 1 hr.

Assistant Professor BALDWIN, Dr. TAYLOR, Dr. BERDAN and Mr. WINTER.

A general course in composition and expression; recitations and lectures, one hour a week; frequent essays, with regular appointments for the criticism of each.

B 2 *Logical Composition (written and oral Argument)* [after B 1]. 2 hrs.

Assistant Professor BALDWIN and Mr. TROWBRIDGE.

Systematic practice in analysis of material and in methods of presentation; editorial, debate, occasional speaking; lectures

on persuasion and on applied logic; regular appointments for criticism; library office-hours for assistance in research.

*B 3 *Verse-Composition.* 1 hr.

Professor LEWIS.

Regular weekly or fortnightly practice in verse composition, with individual appointments for consultation and criticism.

B 4 *Short Themes* [after B 1]. 1 hr., *to count as 2 hrs.*

Assistant Professor BALDWIN.

A course in personal expression: first term, five single-page themes a week; second term, short weekly or longer fortnightly themes; lectures on style, with analysis and discussion; regular appointments for criticism. Except for a few assignments in particular kinds of practice, each student may choose his own direction.

B 5 *Story-Writing* [after B 1]. 1 hr., *to count as 2 hrs.*

Dr. TAYLOR.

Systematic practice in narrative; lectures on narrative forms; regular appointments for criticism.

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*C 1 *Six Essays* [after B 2, 4 or 5]. [Seniors.] 1 hr.

Assistant Professor BALDWIN.

Practice in more extended composition, especially in criticism; detailed analysis of a few nineteenth century essayists and of assigned topics in critical method; regular appointments. The range of subjects is unrestricted; but the course is adapted especially to those students who wish further practice in personal interpretation of their courses in literature or the other arts.

*C 2 *Theory of the Drama* [after B 1]. [Seniors.] 1 hr.

Dr. TAYLOR.

A study of dramatic technique; lectures and discussions based on a reading of typical stage-plays; six required essays on subjects connected with the course, and optional practice in dramatic composition.

COURSES IN ENGLISH LITERATURE

A 1 *Shakespeare and Victorian Literature.* [Freshmen.] 3 hrs.

Dr. ROOT, Mr. J. C. ADAMS, and Dr. TINKER.

*Henry IV*, Part I, *As You Like It*, *King Lear*, *The Tempest*; Carlyle's *Heroes and Hero-Worship*; Ruskin's *Sesame and Lilies*; Matthew Arnold's *Sweetness and Light*; Palgrave's *Golden Treasury*; Tennyson's *Idylls of the King*, with selected shorter poems of Tennyson. The course aims principally to develop an intelligent appreciation of the best poetry and prose.

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B 1 *History of English Literature* [with Rhetoric B 1]. 2 hrs.

Assistant Professor REED and Dr. OSGOOD.

A general outline course, preparatory to the study (in more advanced courses) of special periods and topics. For the earliest periods Lewis's *Beginnings of English Literature* is used. The later history is studied chiefly as it is illustrated by the works of standard authors, but this study is supplemented by occasional explanatory lectures. Among the authors read are the following: Spenser—*Faerie Queene*, Book I. Shakespeare—*Othello*, *Hamlet*, *Winter's Tale*. Milton—several of the Minor Poems, *Comus*, and four books of *Paradise Lost*. Addison—selected essays from the *Spectator*. Steele—Carpenter's *Selections*. Pope—*Rape of the Lock*, *Eloisa to Abelard*, *Essay on Criticism*, and other poems. Swift—*Gulliver's Travels*. Gray—Phelps' *Selections* from his poetry and prose. Sheridan—*The School for Scandal*. Macaulay—*Life of Dr. Johnson*.

B 2 *Chaucer and his Century.* 2 hrs.

Dr. ROOT.

A literary study of Chaucer and of some of his contemporaries in England and on the continent. Selected portions of the *Canterbury Tales* will be studied in detail, together with a rapid reading of the greater part of Chaucer's poetry. Among the other authors to be considered are: Langland (*Vision of Piers Plowman*), Wiclif, Gower, the author of *Sir Gawayne*, and (in translation) Petrarch, Boccaccio, Froissart. For purposes of illustration and contrast, Shakespeare's *Troilus and Cressida*,

Fletcher's *Two Noble Kinsmen*, Dryden's *Fables*, and a few critical essays, such as that of Lowell, will also be read. A good deal of attention will be paid to the daily life of the period, and to its political, social, and religious tendencies, as they reflect themselves in the authors read.

B 3 *English Comedy.* 1 hr.

Dr. TAYLOR.

A reading course in the development of English comedy from its first expression to the drama of Sheridan.

B 4 *Shakespeare.* [Seniors.] 2 hrs.

Professor LEWIS.

A rapid reading of the plays, with special attention to points of dramatic construction and character presentation, and to the development of Shakespeare's style and genius. Mainly a lecture course: but short papers will be written by the class at each exercise.

[B 5 *Elizabethan Drama.* 2 hrs.

Professor PHELPS.

The English drama, from the mystery plays to the closing of the theatres in 1642, studied from both the literary and the dramatic point of view. Plays of the pre-Elizabethan period are read and briefly discussed, with the object of getting a historical background. Some plays of all the principal dramatists from 1580 to 1640, except Shakespeare, will be read: Marlowe, Ben Jonson, Dekker, Heywood, Chapman, Middleton, Beaumont and Fletcher, Webster, Ford, Massinger, Shirley. As a rule, one play will be read for each lesson.

The method of instruction in this course will be by lectures. A weekly one-page critical theme will be required of each student in the class.

Omitted in 1903–1904; will be given in 1904–1905.]

B 6 *Aspects of the Drama.* 2 hrs.

Professor BEERS.

A course in the various types and classes of English drama. A knowledge of Shakespeare will be presumed. None of his plays will be read in class, but they will be constantly used for

reference and illustration. The best English plays outside of Shakespeare will be read in course; and some attention will be given to foreign plays which have influenced the English stage. The instruction will be one-third by lectures and two-thirds by recitation work.

B 7 *English Prose.* [Juniors.] 2 hrs.

Assistant Professor REED.

The instruction in this course will be given by lectures, and brief papers on the assigned reading will be written by the class at each exercise. The first half of the course will be devoted to a study of prose other than fiction, from Sidney to Johnson. Among the authors to be read are Bacon, Browne, Walton, Pepys, Addison, Swift, and Johnson.

The second half of the course will be given to a study of fiction, from the Elizabethan romances to Jane Austen. Among the authors to be read are Lodge, Dekker, Earle, Defoe, Richardson, Fielding, Walpole, Mrs. Radcliffe, Miss Edgeworth, and Jane Austen.

A large amount of reading will be required in this course, and no one should select it without consulting with the instructor.

B 8 *Samuel Johnson and his Circle.* 2 hrs.

Dr. OSGOOD.

A study of Johnson, largely as reflected in Boswell's *Life*, and of the more eminent members of the Literary Club, such as Goldsmith, Garrick, Burke, Gibbon, and Reynolds. The course will aim to acquaint the student with these personalities, especially in relation to the social, political, and literary conditions, and the art, of the times. It will include considerable reading in the literature of the period.

[B 9 *American Literature.* 1 hr.

Professor PHELPS.

A course of lectures on leading American authors of the past hundred years, beginning with Franklin, and coming down to the men of to-day. A large amount of reading will be required; also a weekly one-page critical theme from each member of the class.

Omitted in 1903–1904.]

B 10 *English Poets of the Nineteenth Century.* [Juniors.] 2 hrs.

Professor LEWIS.

A course of lectures, biographical and critical. A considerable amount of reading will be assigned, and short papers will be written by the class at each exercise. The course will include Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Rossetti, Clough, Arnold, Morris, Swinburne, and a few others.

B 11 *New England Writers.* [Seniors.] 2 hrs.

Professor BEERS.

Readings in the New England writers of the generation 1830–1870, with some attention to the contemporary movement in speculative thought and to the social experiments of the time.

[B 12 *Tennyson and Browning.* 2 hrs.

Professor PHELPS.

The autumn term will be occupied with the study of Tennyson. Practically all of his poetry will be read. His theory of the poet's art, his skill in technique, his artistic expression, and his representation of nineteenth century ideas will be studied in detail.

After Christmas, the complete works of Browning will be taken up, only those being omitted which are unnecessary in forming a general estimate of his work as a poet. His personal force, his growth, his attitude toward his art, and his place in nineteenth century poetry will be considered; but the chief attention will be paid to his analysis of human life and character.

The instruction in this course will be by means of recitations, discussions, and the preparation of short special papers by the students.

Omitted in 1903–1904; will be given in 1904–1905.]

[B 13 *English Literary Criticism.* [Seniors.] 1 hr.

Professor LEWIS.

A historical survey of literary criticism since the sixteenth century. This course is designed only for students who have done a considerable amount of reading in pure literature.

Omitted in 1903–1904.]

B 14 *English Prose of the Nineteenth Century.* 2 hrs.

Mr. J. C. ADAMS.

A study of the most important prose of the century, excluding fiction. The course will include DeQuincey's *Confessions of an English Opium-Eater*, Lamb's *Essays of Elia*, Landor's *Imaginary Conversations*, Selections from Macaulay (Perry), Carlyle's *Sartor Resartus*, Selections from Newman (Gates), Ruskin's *Crown of Wild Olive*, Thackeray's *English Humorists*, Arnold's *Essays in Criticism, Second Series*, Pater's *Appreciations*, Stevenson's *Travels with a Donkey*, *Across the Plains*, and *Virginibus Puerisque*. The instruction will be partly by lectures, biographical and critical, and partly by recitation work.

B 15 *English Verse-Narrative.* 2 hrs.

Professor BEERS.

A course in the principal forms of verse narrative, from Chaucer to William Morris; including the epic, the romance, the popular ballad, the metrical tale, the animal fable, the moral apologues, etc.

B 16 *The English Ballad.* 1 hr.

Dr. TINKER.

This course will consist of a thorough study of the early English popular ballad, and of its influence on modern poetry, as seen in the work of Percy, Scott, Rossetti, William Morris, and others. If time serves, other types of popular poetry, such as the early epic, the minstrel romance, the beast-fable, and the saint's legend, will be examined.

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*C 3 *Medieval Allegory.* 2 hrs.

Professor BEERS.

The *Purgatory* of Dante, the *Romaunt of the Rose*, and a portion of *Piers Plowman* will be read in class, together with other texts illustrative of the subject. A fair reading knowledge of Italian is required of students electing this course.

*C 4 *Theories of Poetry.* [Seniors.] 2 hrs.

Professor Cook.

A course in the theories of poetry in general, and in the principles of criticism applicable to its various departments, as the epic, dramatic, and lyric. Discussions and papers on the basis of standard works, such as Aristotle's *Poetics*, Sidney's *Defense of Poesy*, Woodbridge's *The Drama*, Boileau's *Art of Poetry*, Lessing's *Laokoon*, and others of similar character. Reading of masterpieces to illustrate and extend the principles derived from theoretic works.

*C 5 *Old and Middle English.* 2 hrs.

Professor Cook.

An elementary course in the beginnings and earlier development of the English language and literature. Reading is begun at the earliest practicable moment, and the study is made as literary in character as is consistent with a thorough grounding in the rudiments of the language. This course, while it is indispensable to all graduate students and future teachers of English, and will also be of service to students of English history and of the English Bible, is designed as well for those who, in the pursuit of general culture, are unwilling to remain ignorant of the foundations of the English language and literature.

[*C 6 *Dante in English.* [Seniors.] 2 hrs.

Professor Cook.

A course primarily in the *Divina Commedia* and the *Vita Nuova*, though selections from the other works are also read. Two or three of the best English translations are employed, together with such reference books as may be necessary. Much attention is bestowed upon the historical and literary background of the poet and his works.

Omitted in 1903–1904.]

*C 7 *Literary Types.* 2 hrs.

Professor Cook.

A survey of European literature, with reference to the characterization and illustration of the more important species. Candidates must satisfy the instructor with regard to their proficiency in French, German, and Latin.

*C 8 *English Lyrical Poetry.* [Seniors.] 2 hrs.

Assistant Professor REED.

A lecture course, with brief papers on the assigned reading, on the origin and development of the English lyric from Skelton to the present day. Among the many authors to be read are Wyatt, Sidney, Spenser, Shakespeare, Campion, Donne, Jonson, Carew, Crashaw, Suckling, Herrick, Marvell, Prior, Gay, Burns, Blake, and Shelley.

[*C 10 *Elizabethan Literature.* [Seniors.] 2 hrs.

Professor PHELPS.

Studies in the poetry and prose of the Elizabethan period, exclusive of the drama. Wyatt, Surrey, Ascham, Foxe, Painter, Lyly, Raleigh, Greene, Nash, Lodge, Marlowe, Hooker, Sidney, Spenser, Shakespeare, Davies, Drayton, Chapman, and others, will constitute the required reading. Lectures, discussions, and preparation of special papers by members of the class.

This is a graduate course, but a very few seniors will be admitted on special application.

Omitted in 1903–1904.]

*C 11 *Shakespeare.* [Seniors.] 2 hrs.

Professor LEWIS.

A minute study of three or four of the greater plays, such as *Hamlet*, *King Lear*, *Macbeth*. Textual criticism, investigation of disputed readings and of dates and sources, and comparison of the work of various commentators.

*C 12 *Milton and his Contemporaries.* 2 hrs.

Professor BEERS.

The subject will be treated with special reference to the political and religious conflict of the times. All of Milton's English verse will be read, a few of his Latin poems, and much of his prose. The work of the Church poets and Cavaliers will be examined, as also various diaries and memoirs, and portions of the writings of Clarendon, Butler, Marvell, Bunyan, etc.

[*C 13 *English Literature of the Seventeenth Century.*
[Seniors.] 1 hr.

Professor PHELPS.

A study of English poetry and prose from Donne to Dryden. The poetry of Donne, Drummond, Herbert, Crashaw, Vaughan, Quarles, Carew, Suckling, Herrick, Cowley, Milton, Waller, Marvell, Butler, and Dryden will be read; also the prose of Burton, Browne, Taylor, Pepys, Fuller, Walton, Clarendon, Milton, Bunyan, and Dryden. The social life of the times is discussed in connection with some of the authors mentioned above.

Omitted in 1903-1904.]

# (2) MATHEMATICS AND THE PHYSICAL AND NATURAL SCIENCES

## XII. MATHEMATICS

A 1 *Solid Geometry, Plane Trigonometry, and Algebra or Analytical Geometry.* [Freshmen.] 3 hrs.

Professor BEEBE, Drs. HAWKES, WILSON and GALE.

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B 1 *Calculus* [after A 1]. 3 hrs.

Professor PHILLIPS.

The elements of the Differential and Integral Calculus.

Since the Calculus lies at the foundation of the modern treatment of the quantitative sciences, all students who wish to acquire more than an elementary knowledge of Physics, Astronomy, the Engineering Sciences, theoretical Chemistry, mathematical Economics, physiological Psychology, etc., as well as those students who are more especially interested in pure Mathematics, should take this course.

B 2 *Spherical Geometry and Trigonometry; Surveying, Navigation, and Nautical Astronomy* [after A 1]. 3 hrs.

Professor E. L. RICHARDS.

A short course in Surveying, and a complete elementary course in Navigation, embracing plane sailing, middle latitude sailing, sailing by Mercator's chart, and correction of courses. Instruction in Nautical Astronomy will include the subject of Time, with the methods of finding latitude and longitude by observations of heavenly bodies, and numerous examples illustrating these methods; the use of tables and the Nautical Almanac as far as they are required. Instruction in the use of the sextant will also be given to pupils desiring it.

B 3 *Analytical Geometry.* [Juniors and Seniors.] 3 hrs.

Dr. GALE.

This course proposes to give an account of the more elementary parts of Modern Analytical Geometry. Instruction will be

given by lectures, accompanied by practical work in the solution of problems.

Books of reference: Ashton, *Plane and Solid Geometry;* Briot and Bouquet, *Géométrie Analytique* (English translation); Salmon's *Conic Sections.*

B 4 *Higher Algebra.* [Juniors and Seniors.] 2 hrs.

Dr. HAWKES.

This course takes up the subject at the point where the entrance examinations leave it and treats those algebraic methods and facts which the student will find indispensable for the further pursuit of pure or applied mathematics. The course will also afford a breadth of outlook very desirable for one who expects to teach. Instruction will be given by means of text-books supplemented by lectures.

Those who propose to take course B 5 must consult Professor Phillips beforehand, whose approval, in writing, is required. This course together with course C 9, for Seniors, is designed especially for students who intend to take a graduate course in Mechanical Engineering.

*B 5 *Descriptive Geometry and Machine Drawing.*
3 hrs., *to count as 2 hrs.*

Professor C. B. RICHARDS and
Assistant Professor MARSHALL.

Course B 5 is open only to a limited number of those who have studied the Mathematics of the Sophomore year. The course includes the principles of orthographic projection, the intersection and development of surfaces; in the second term, elements of machine drawing.

B 6 *Descriptive Astronomy.* [Juniors and Seniors.] 1 hr.

Professor BEEBE.

Intended principally for the study of topics connected with the historical and physical side of astronomy. Only so much mathematical work is introduced as is essential to an understanding of such topics. Text-book: Young's *Elements of Astronomy.*

Opportunity will be given for study of constellations and observation with the telescope.

*C 1 *Advanced Calculus* [after B 1 and with or after B 3]. 3 hrs.

Professor PIERPONT.

This is a continuation of the first course in Calculus, and in turn leads up to courses in higher analysis and geometry. More advanced parts of the Calculus are here treated, especial attention being given to applications to the theory of curves and surfaces.

Books of reference: Byerly's *Differential and Integral Calculus;* Serret–Bohlmann, *Differential und Integral Rechnung.*

*C 2 *Analytical Mechanics* [after B 1]. 2 hrs.

Dr. WILSON.

The object of this course is to introduce the student to the more important facts of statics and dynamics, making use of the Calculus. To develop the student's mechanical intuition, a large variety of problems is given.

*C 3 *Introduction to Mathematical Physics.* 2 hrs.

Dr. WILSON.

The object of the course is to give the student an introduction to the Mathematical treatment of elementary parts of the theory of the potential, light, heat, sound, and electricity. The lectures will be based on Christiansen's *Elements of Theoretical Physics*, translated by Magie.

[*C 4 *Celestial Mechanics* [after B 1, B 3 and C 2]. 2 hrs.

Professor BEEBE.

Development of formulae and numerical calculations for determining the parabolic orbit of a comet from three observations.

Computation of an ephemeris and reduction of observations for comparison with the ephemeris.

The course may be carried on through a second year to computation of elliptic orbits and the discussion of perturbations.

Omitted in 1903–1904.]

*C 5 *Projective Geometry* [after B 1 and B 3]. 3 hrs.

Professor PIERPONT.

Both the analytic and synthetic methods will be used to develop the fundamental properties of points, lines, planes,

conics, and quadric surfaces and the linear transformation in the plane and in space.

*C 6 *Differential Equations and Function Theory* [after C 1]. 3 hrs.

Dr. GALE.

Topics are: definite integrals, Gamma functions, elements of the function theory of a complex variable, elliptic functions with application to physics and geometry, differential equations, particularly the equations of mathematical physics.

[*C 7 *Practical Astronomy* [after B 6]. 2 hrs.

Professor BEEBE.

Observatory work with astronomical transit and chronograph for determination of sidereal and standard time, and with sextant and theodolite for determination of latitude and azimuth, numerical computations for reduction of observations, derivation of formulae, and recitations from Loomis's *Practical Astronomy*.

Omitted in 1903–1904.]

*C 8 *Machine Designing.* 8 hrs., *to count as 4 hrs.*

Professor C. B. RICHARDS.

Course C 8 is a continuation of the work in course B 5 and is open only to a limited number of those who have taken that course.

# THE PHYSICAL SCIENCES

## XIII. PHYSICS

A 1 *Elementary Physics.* 3 hrs.

Professor DANA and Assistant Professor KREIDER.

A general course, taking up, after a brief review of Mechanics, the properties of Liquids and Gases, and then the subjects of Heat, Magnetism, Electricity, Sound and Light. Experimental illustrations will be freely introduced. Ganot's *Physics* (16th edition) and S. P. Thompson's *Elementary Lessons in Electricity and Magnetism* will probably be used as text-books.

This course is intended primarily for Sophomores but is open also to Juniors and Seniors. It must be taken by all who desire to go on later with the courses in Laboratory Physics (B 1, C 1), and is of importance to those who intend to study medicine or any of the technical professions. It is accepted as a B course after Mathematics A 1.

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*B 1 *Physics.* 4 hrs., *to count as 2 hrs.*

Professor A. W. WRIGHT.

Two exercises each week, chiefly practical work in the Sloane Physical Laboratory, with measurements, especially in heat, light, and electricity, each exercise occupying two hours. As introductory to the laboratory practice, the exercises during a portion of the first term consist of recitations or discussions upon the theory and methods of physical measurements, the use of instruments, and other special topics. Laboratory facilities are also freely accorded to students of the course at other times than those of the stated exercises.

The successful prosecution of this course requires practical facility in the application of the Physics and Mathematics of the previous years, the lack of which may be made a reason for exclusion from the course. Written permission is necessary.

*C 1 *Physics* [after B 1]. 3 hrs., *to count as 2 hrs.*

Professor A. W. WRIGHT.

A more advanced course of laboratory work in Physics, in continuation of course B 1.

This course will consist of one laboratory exercise of two hours each week on Wednesdays, and one exercise of one hour each week on Thursdays. The latter will be in the nature of a recitation, discussion, or conference, with the use of some text-books, and will involve the theoretical study of special points of Physics in detail.

The course includes practical problems in physical experimentation of more elaborate character, and worked out with greater detail. Those students who make sufficient advance will be encouraged to undertake original investigations, in which they will receive necessary assistance and guidance, and will have free use of the resources of the Sloane Physical Laboratory.

For a course in Mathematical Physics see Mathematics C 3.

## XIV. CHEMISTRY

### SUGGESTIONS AS TO CHOICE OF COURSES

For those who desire merely to gain a general idea of the facts and methods of chemistry:

In Freshman, Sophomore, Junior or Senior year: Inorganic Chemistry (A 1).

For those who intend to study mineralogy or geology:

Inorganic Chemistry (A 1).
To which may be added in successive years—
Qualitative Analysis (B 1).
Quantitative Analysis (C 1).

For those who intend to study medicine:

Not later than Sophomore year: Inorganic Chemistry (A 1).
To which should be added in successive years—
Organic Chemistry (B 2).
Qualitative Analysis (B 1).

For those who intend to study applied chemistry or to enter the technical schools with advanced standing, or who for any reason may desire extended training in chemistry:

Not later than Sophomore year: Inorganic Chemistry (A 1).
In Sophomore or Junior year: Qualitative Analysis (B 1).
Organic Chemistry (B 2).
Inorganic Preparations (B 3).
In Junior or Senior year: Quantitative Analysis (C 1).
Chemical Theory (C 2).
To which may be added—
The Rare Elements (C 3).
The Carbon Compounds (C 4).

For the laboratory courses a fixed charge is made (to cover the expenditure for chemicals, gas, water, etc.), in addition to the cost of apparatus broken or not returned in serviceable condition. For each of the courses A 1, B 1, B 2, C 1, the fixed charge is $20.00; for courses B 3 and C 3 the fixed charge is $10.00; for the lecture courses C 2 and C 5 no charge is made. The charge for breakage should not exceed in the average $5.00 for each laboratory course.

A 1 *Inorganic Chemistry, Experimental and Descriptive.* 6 hrs., *to count as 3 hrs.*

Professor GOOCH, Assistant Professor BROWNING and Dr. I. K. PHELPS.

Lectures, laboratory work and class-room exercises. An introduction to elementary chemical theory, the use of symbols and equations, and the study of the elements and their compounds. While elementary and fundamental in character, this course is probably sufficient for the needs of those who desire merely a very general knowledge of the facts and methods of chemistry. It is a prerequisite to the other courses in Chemistry, and to the courses in Biology and Mineralogy.

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B 1 *Qualitative Analysis.* 5 hrs., *to count as 3 hrs.*

Assistant Professor BROWNING.

Laboratory practice in the ordinary processes of qualitative analysis, with lectures. This course is of importance to those who intend to study medicine, engineering, or the technical professions in general, or who desire to teach elementary science.

B 2 *Organic Chemistry.* 5 hrs., *to count as 3 hrs.*
Professor GOOCH and Dr. I. K. PHELPS.

An introduction to the study of the compounds of carbon. Lectures, written exercises, and laboratory work. This course is a desirable adjunct to course A 1 for those who purpose to take the course in physiological chemistry, or to become students of medicine or of applied chemistry, or who have a special interest in chemistry.

*B 3 *Inorganic Preparations.* 2 hrs., *to count as 1 hr.*
Assistant Professor BROWNING.

Open by permission to undergraduates who specialize in chemistry. A short course, mainly laboratory work, covering typical methods for the preparation of inorganic salts.

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*C 1 *Quantitative Analysis* [with or after B 1]. 6 hrs., *to count as 3 hrs.*
Professor GOOCH.

Lectures with laboratory practice in the use of the simpler methods of gravimetric and volumetric quantitative analysis.

*C 2 *Chemical Theory.* 1 hr.
Professor GOOCH.

Open by permission to undergraduates who specialize in chemistry. This course is devoted to the historical development of the general principles and theories of chemistry. There is no laboratory work, and therefore no fee is charged.

*C 3 *The Rare Elements.* 3 hrs., *to count as 2 hrs.*
Assistant Professor BROWNING.

Open by permission to undergraduates who specialize in chemistry. Lectures with laboratory work covering the principal reactions of the elements not included in the general course. The methods in use for the qualitative determinations of these elements are carefully studied.

*C 4 *The Carbon Compounds—Descriptive and Theoretical* [after B 2]. 3 hrs.
Dr. I. K. PHELPS.

Open by permission to undergraduates who have completed course B 2. A course of lectures treating systematically the more important compounds of carbon and the theories concerning them.

# THE NATURAL SCIENCES

## XV. GEOLOGY

A 1 *Physical and Commercial Geography.*
[Sophomores only.] 3 hrs.

Assistant Professors GREGORY and KELLER.

A study of maps and map making; the physical features of the land, ocean, climate; the natural distributions of flora, fauna, minerals, etc.; the condition of human life as affected by natural environment.

Text-books and Laboratory Work.

A 2 *Meteorology.* 2 hrs. 2d half-year, *to count as 1 hr.*

Mr. TARR.

Lectures, recitations, and laboratory work. A study will be made of winds, rainfall and the other atmospheric factors which produce climate. The laboratory work will be conducted at the office of the United States Weather Bureau and will include the study of instruments, the making of weather maps, and methods of forecasting the weather.

Course A 2 is designed to supplement course A 1.

A 3 *General Geology.* [When preceded by Chemistry A 1, Physics A 1, or Geology A 1, this course will count as B grade.] 2 hrs.

Assistant Professors GREGORY and BARRELL.

A course of lectures on the general principles of the science of geology. Such topics will be discussed as will give an understanding of the structural features of the earth; of the forces by which its present condition has been attained; and of the past history of the earth. The lectures will be supplemented by the use of a text-book and illustrated by specimens and lantern views. Optional excursions to points of geologic interest will be arranged.

A 4 *Geology, with field and laboratory work.* 3 hrs.

Asst. Profs. GREGORY and BARRELL, and Mr. ROBINSON.

This course will include the exercises of course A 3, General Geology, and in addition field and laboratory work will be assigned to average two hours per week. The laboratory work will consist of assigned readings and of the study of important minerals, rocks, and fossils; the field work will include geologic mapping and excursions. [Students who take this course must leave Monday or Tuesday afternoon free from 2.00-5.00.]

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*B 3 *Mineralogy and Crystallography.* 2 hrs., *to count as 1 hr.*

Professor DANA.

Practical study of mineral species by means of blowpipe analysis and other methods; also, mathematical study of the forms of crystals. Particular attention will be given to important ores and to rock-making minerals. [Open to students who have studied or are taking Chemistry.]

*B 4 *Mineralogy.* 4 hrs., *to count as 2 hrs.*

Professor DANA.

Includes the exercises of B 3, and in addition laboratory work will be assigned to average two hours per week.

B 5 *Organic Evolution.* 2 hrs.

Professor H. S. WILLIAMS.

An elementary lecture course on evolution, supplemented by text-book use of Darwin's *Origin of Species*, upon which examinations will be held.

The course is offered as a B course for Juniors or Seniors who have already taken any A course in science.

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*C 1 *Historical Geology* [after A 3]. [Seniors.] 4 hrs., *to count as 2 hrs.*

Professor H. S. WILLIAMS.

Special study of geological formations and faunas, and of the principles of classification and correlation. The work will chiefly consist of the laboratory study of collections, reading of

geological literature and preparation of scientific papers. Open only to those who have taken course A 3 and have studied Zoology.

*C 3 *Structural Geology.* 2 hrs.

Assistant Professor BARRELL.

An advanced course consisting of studies on the nature of chemical and dynamical agencies operating within the crust of the earth and their effects. The origin and significance of rock structures will be discussed and a review given of the theories as to the earth's interior and the larger movements of the crust. Such subjects are taken up as: the causes and nature of weathering, lithification, joints, faults, folds, fissure veins, metamorphism and mountains. The exercises will consist of lectures, the study of geological literature and field and laboratory problems. [Students who take this course must leave Wednesday or Thursday afternoon free from 2.00–5.00, as these afternoons will occasionally be substituted for the regular class hour.]

*C 4 *Structural Geology.* 3 hrs.

Assistant Professor BARRELL.

This course will include the exercises of *C 3, and in addition a larger amount of field work and the reading of geological literature in foreign languages will be required.

*C 5 *Physiography* [after A 3 or A 4]. 2 hrs.

Assistant Professor GREGORY.

A study of the origin, development and classification of land forms followed by a study of the physiography of the United States. The exercises will include lectures, field excursions, the reading of topographic maps and of geologic literature.

*C 6 *Physiography.* 3 hrs.

Assistant Professor GREGORY.

This course will include the exercises of course *C 5 Physiography, and in addition a field problem will be assigned which must be satisfactorily completed, and a written report made upon it.

*C 7 *Field Geology.* Two afternoons weekly, *to count as 3 hrs.*

Dr. ROBINSON.

The course will consist of field work upon selected areas in the vicinity of New Haven, supplemented by lectures and laboratory exercises upon the construction and use of topographic and geologic maps.

## XVI. BIOLOGY.

PHYSIOLOGY, GENERAL BIOLOGY, PHYSIOLOGICAL CHEMISTRY.

A 1 *Physiology.* [Sophomores and Juniors.] 1 hr.

Professor CHITTENDEN.

Huxley's *Lessons in Elementary Physiology*, with occasional lectures and illustrative experiments. This course is designed to give familiarity with the structure and functions of the body as a necessary part of a general education, and at the same time as a preparation for more advanced biological courses of Junior and Senior years. For men intending to enter upon the study of Biology in general, this course should be taken in connection with Chemistry A 1, and should be followed by course B 1 of Junior year and C 1 of Senior year.

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B 1 *General Biology* [with or after Physiology A 1]. [Juniors and Seniors.] 3 hrs.

Professor S. I. SMITH.

This course should be preceded by the course in Physiology A 1, or the latter course should be taken with the course in Biology. The exercises, of at least two hours each, will consist of laboratory work combined with informal lectures and demonstrations. The course includes the study of the life histories of several types of the lower plants and animals, the dissection of a few vertebrate types, and the study of the rudiments of cytology, vertebrate histology and embryology, together with the bearings of these sciences on the theories of biology and evolution.

This course, open to Juniors and Seniors, is sufficiently broad to adapt it to the needs of students preparing for medical or advanced biological courses, but it is also well adapted for those

students who wish to pursue some biological study, either for general culture or as a preparation for work in other lines, such as anthropology, sociology and organic evolution.

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*C 1 *Physiological Chemistry* [after Chemistry A 1 and Physiology A 1]. [Seniors.] 3 hrs.

Professor CHITTENDEN.

This course must be preceded by Chemistry A 1 and by Physiology A 1. It is also desirable that the course in General Biology B 1 should either precede or be taken with the present course.

Two exercises a week, of two and a half hours each, in the laboratory of Physiological Chemistry. The time is devoted to a study of the general principles of Physiological and Biological Chemistry, especial emphasis being laid on the study of the chemistry of the cell, of the connective, contractile, and nervous tissues, of the chemical processes of salivary, gastric, and pancreatic digestions, and of other subjects connected with the physiology of nutrition and the chemistry of the excretions.

Students successfully completing this course of study are exempt from the study of Physiological Chemistry in several of the larger and better known medical schools of the country.

*Biology as a general culture study.*

The courses of studies above described admit of the selection of a given line of biological work without compelling the student to follow work of an allied nature. The course in Physiology, for example, is intended especially for Sophomores and Juniors, who may desire to gain some knowledge of Physiology, without any intention of pursuing later the study of Medicine. The scope of the course is broad, and it can be well taken as an independent study without reference to other biological topics, if so desired.

The course in General Biology is especially adapted to the needs of those students who desire some knowledge of Biology as a part of their general culture, or as a preparation for other lines of biological work, without necessarily having reference to the study of Medicine later.

*Biology as a preparation for the study of Medicine.*

The courses of instruction detailed above, together with course Chemistry A 1, constitute a connected and continuous line of study extending through the Sophomore, Junior and Senior years, especially adapted for students who intend to enter later upon the study of Medicine.

All students expecting to take this connected course in Biology as a preparation for Medicine are advised to pursue, likewise, courses in organic chemistry, qualitative analysis, and laboratory physics. They should also have a reading knowledge of German and French. The successful accomplishment of such a course of connected studies as is here suggested will secure admission to medical schools of the highest standing, and in some instances will lead to exemption from corresponding subjects in the medical school curriculum.

HUMAN ANATOMY, HISTOLOGY, AND EMBRYOLOGY.

The following courses are intended primarily for students who intend to enter upon the study of medicine later.

C 2 *Human Anatomy.* [Seniors.] 3 hrs.
Professor FERRIS.

This is a course in human anatomy covering the portions pertaining to osteology, myology and syndesmology. The instruction is given by recitations, lectures and demonstrations, combined with systematic work in the anatomical laboratory.

A special fee of ten dollars is charged for this course, and there are laboratory expenses of five or ten dollars.

C 3 *Human Histology and Embryology.* [Seniors.] 3 hrs.
Professor FERRIS.

This is a laboratory course combined with recitations and lectures. It includes a study of the construction and optics of the microscope, microscopical technique, and the imbedding, and

sectioning, and staining of tissues. A careful study is made of the histology of the elementary tissues and most of the organs of the human body.

The laboratory work in embryology includes a study of the early development of the chick, and pig, and of selected organs from the human subject.

A fee of three dollars for the use of microscopes is charged in this course.

The required work of the first year in the Medical School of this University is all comprised in the following named courses :—

Physics A 1 ; Chemistry A 1 (Inorganic), B 1 (Qualitative Analysis), B 2 (Organic); Physiology A 1 ; General Biology B 1; Physiological Chemistry C 1; Human Anatomy C 2 ; Histology and Embryology C 3.

Students completing these courses and registering in the Medical School at the beginning of their senior year will receive credit for one year's work in medicine.

BOTANY

A 1 *Botany.* 4 hrs., *to count as 2 hrs.*

Assistant Professor EVANS.

An elementary course in the botany of flowering plants. Laboratory work and informal lectures. The plant and its various organs are studied with respect to their form, structure, and functions, and special emphasis is laid on the relationships of a plant to its environment.

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B 1 *General Morphology of Plants.* [Seniors.] 4 hrs., *to count as 2 hrs.*

Assistant Professor EVANS.

Laboratory work and informal lectures. Beginning with the simplest forms, the various groups of plants are taken up in suitable types, and their structure, development, and mode of life are studied and compared. The course is limited to those who can show a satisfactory knowledge of the botany of flowering plants.

FORESTRY

A 1 *Introduction to Forestry.* 2 hrs.

Mr. AKERMAN.

This course is designed to give a comprehensive view of Forestry with special reference to its economic aspects. It considers the purpose and scope of forestry, its importance in national economy, the indirect influence of forests, the relation of the State to forests and forestry, the need for forestry and its practice in the United States. It is recommended to undergraduates who desire a knowledge of the nature of Forestry with the view of possibly entering the profession.

# (3) PHILOSOPHY, HISTORY AND THE SOCIAL SCIENCES

## XVII. PHILOSOPHY

Courses in this department are offered in Mental Science—Psychology, Logic and the Principles of Science, Ethics, Aesthetics, and Pedagogics; and in Philosophy—Introduction to Philosophy, History of Philosophy, Metaphysics, Epistemology, Philosophy of Religion, and Philosophical Criticism. The courses are as follows:

| A. | | B. | | C. | |
|---|---|---|---|---|---|
| 1 Psychology, | 2 hrs. | 1 Hist. of Philos. (Mod.), | 2 hrs. | 1 Philos. of Conduct, | 2 hrs. |
| 2 Logic, | 1 hr. | 2 Introd. to Philosophy, | 2 hrs. | 2 Kant Seminary, | 2 hrs. |
| 3 Ethics, | 1 hr. | 3 Philos. Christ. Relig., | 2 hrs. | 3 Theism and Apologet., | 1 hr. |
| 4 Hist. of Philos. (Anc.), | 2 hrs. | 4 Comparative Religion, | 1 hr. | 4 Modern Philosophy, | 3 hrs. |
| 5 A Study of the Christian Religion, | 1 hr. | 5 Epistemology, | 1 hr. | 5 Philos. of Evolution, | 2 hrs. |
| 6 Mod. Polit. Philos., | 1 hr. | 6 Exper. Psych. (Lab.), | 3 hrs. | 6 Philosophical System, | 2 hrs. |
| 7 Plato's Dialogues, | 2 hrs. | 7 Aesthetics, | 1 hr. | 7 Philos. of Mind, | 2 hrs. |
| 8 Philos. Writ. of Cicero, | 1 hr. | 8 Discussions in Philos., | 1 hr. | 8 Genetic Psychology, | 1 hr. |
| | | 9 Systematic Pedagogy, | 1 hr. | 9 Psychol. (Exp. Prob.), | 3 hrs. |
| | | 10 Exper. Pedagogy, | 1 hr. | 10 Philosophy of Lotze, | 2 hrs. |
| | | 11 History of Education, | 2 hrs. | 11 Philos. of Nature, | 2 hrs. |
| | | 12 Philosophical French, | 2 hrs. | 12 Psycholog. German, | 2 hrs. |

The primary aim of courses A 1, A 2, and A 3 is to give an elementary, yet systematic introduction to Mental Science. These courses may properly be taken by all who desire to understand the intellectual and moral nature of the human soul.

The primary aim of courses B 1 and B 2 is to introduce the student in an elementary, yet systematic, way to the problems and conceptions of general Philosophy. One or both of these courses may properly be taken by all who desire any acquaintance with Philosophy as a means of culture. One of the elementary courses A 1 or A 4, in connection with either course A 2 or course A 3, is a prerequisite to all courses of B grade in this department (course B 4 excepted); one at least of these courses

should, therefore, be taken in Sophomore year, if the student desires to have open to him the courses of B grade in Junior year, and must be so taken by students who expect to take courses of C grade in this department. One of the courses B 1 or B 2 is a prerequisite to all courses of C grade in this department (course C 3 excepted); and as such must be taken in Junior year.

Those who wish to specialize in Philosophy, whether or not intending to work for Honors, are recommended to take at least: in Sophomore year, courses A 1 and A 4; in Junior year, courses B 1, B 2 and B 6; in Senior year, an additional A or B course and two C courses. Students of mathematics, the natural sciences, and law are recommended to take course A 2. All expecting to become teachers are advised to take courses B 9, B 10, B 11, C 1, and C 8.

A 1 *Psychology, Experimental and Analytical.* 2 hrs.

Drs. JUDD and MCALLISTER.

An introductory course in general psychology, with illustrative experiments. The topics treated are: the physiological conditions of mental life; sensations, feelings, and activities; perception, and the higher forms of thought, emotion and volition. Text-book and lectures.

[This course (or course A 4), in connection with either course A 2 or course A 3, is a prerequisite to all courses of B and C grade in the department of philosophy. It should, therefore, be taken in Sophomore year, if the student desires to have open to him in the following year the laboratory course in experimental psychology (B 6), and the other B courses in philosophy. Students who expect to do work of C grade in philosophy must take course A 1 (or A 4) in Sophomore year.]

A 2 *Logic and the Principles of Science.* 1 hr.

Dr. CHURCHILL.

A course of systematic instruction in the elements of logic, deductive and inductive, with especial attention to the nature of reasoning, the conditions of proof, and the principles of science. Text-book and lectures.

[This course is open to Sophomores, Juniors, and Seniors. Sophomores, and those who wish to have it count as preparatory to courses of higher grade in the department of philosophy, take it in connection with either course A 1 or course A 4.]

A 3 *Ethics, Practical and Theoretical.* 1 hr.

Professor SNEATH.

An outline study of the ethics of individual life, of the family, of society, and of the state; including also the relations of ethic to art, science, and religion. During the latter part of the year the theoretical basis of ethics will be considered, together with a brief history of the principal schools of ethical thought. Text-book and lectures.

[This course is open to Sophomores, Juniors, and Seniors. Sophomores, and those who wish to have it count as preparatory to courses of higher grade in the department of philosophy, take it in connection with either course A 1 or course A 4.]

A 4 *History of Philosophy (Ancient).* 2 hrs.

Professor DUNCAN.

The history of philosophy from its origin among the Greeks down to the opening of the Modern Period, with cursory reading, *in English*, of selected specimens of the philosophical literature of the periods studied, such as Plato's *Republic* (Davies and Vaughan's translation), Aristotle's *Nicomachean Ethics* (Chase's translation), Cicero's *Nature of the Gods* (Franklin's translation), Anselm's *Proslogium* (Deane's translation). The course aims to introduce the student in a simple way to the principal questions and conceptions of philosophy as developed in the periods treated, and to familiarize him with the less technical specimens of classical philosophical literature. Especial attention will be given to Plato and Aristotle, and to the Epicureans, Stoics and Sceptics.

[This course is open to Sophomores, Juniors, and Seniors. It may be substituted for course A 1, if taken in connection with either course A 2 or course A 3, as preparatory to courses of B and C grade in the department of philosophy. Course A 1, or this course, should therefore be taken in Sophomore year. Courses A 1 and A 4 are, however, independent of each other, and may profitably be taken together in the same year.]

A 5 *A Study of the Christian Religion.* [Juniors and Seniors.] 1 hr.

Professor LADD.

A course of lectures treating of the origin, nature and development of religion in general and of the place which Christianity occupies among the great world religions. This introduction will be followed by a discussion of the special relations in which Christianity stands to Judaism, of the historical and rational evidences for the truths taught by its Founder, of its essential religious and ethical conceptions, and the more important historical modifications which it has since undergone; and, finally, of its influences upon race-culture, and its claims to universality.

A 6 *Modern Political Philosophy.* [Juniors and Seniors.] 1 hr.

Professor SNEATH.

A study of the development of reflective thought in modern philosophy on the questions of the origin, nature, functions, forms, and ends of civil government. The work of the course consists of a series of lectures, with collateral readings, on the following authors: Hobbes, Spinoza, Locke, Rousseau, Burke, Bentham, Mill, etc.; together with written recitations on a text-book. The practical aim of the course is to prepare students for intelligent citizenship.

A 7 *Plato's Dialogues.* 2 hrs.

Dr. CHURCHILL.

Analysis and discussion of the most significant Dialogues, which the class will read in translation. Plato's position in the history of thought, his mastery of literary art, his depth of philosophic insight, his struggles for social reform, his answers to great problems of modern times. Not exhaustive criticism but sympathetic appreciation of one of the world's greatest thinkers and noblest reformers.

A 8 *The Philosophical Writings of Cicero.* 1 hr.

Dr. HESS.

A study, in the light of modern reflection on the same subjects, of Graeco-Roman eclectic thought on the problems of philosophy as contained in the philosophical writings of Cicero. The following works of Cicero will be read in the best English ren-

derings available: *On the Nature of the Gods; Offices, or Moral Duties; Academic Questions; Tusculan Disputations; Of Ends, a treatise on the Chief Good and Evil.*

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B 1 *History of Philosophy (Modern)* [after A 1 or A 4]. 2 hrs.

Professor DUNCAN.

A study of philosophical thought from Descartes to the present time, with cursory reading of philosophical masterpieces from Descartes to Kant. This course of lectures, with written tests, while intended primarily for general culture, also aims to be an introduction to the more special study of philosophy in its various branches and problems. Külpe's simple *Introduction to Philosophy* will be read in connection with it.

[The inexpensive reprints of Philosophical Classics issued by The Open Court Publishing Co. (Chicago) will be used. A number of copies of each of the works read will also be placed in the University Reference Reading Room for those students who care to use them.]

B 2 *Introduction to Philosophy* [after A 1 or A 4]. 2 hrs.

Professor SNEATH.

This course of lectures, with required readings, is designed to acquaint the student with the nature, problems, schools, and literature of Philosophy. It may be taken by all who desire any acquaintance with philosophy as a means of general culture. It is also recommended to those who seek for a general introduction to the more special or advanced study of philosophy. Paulsen's *Introduction to Philosophy.*

B 3 *Philosophy of the Christian Religion* [after A 1 or A 4]. 2 hrs.

Professor LADD.

The same as course A 5, with an additional hour of papers and discussion by the class.

B 4 *Comparative Religion.* 1 hr.

Professor HOPKINS.

A course of weekly lectures through the year. These lectures take up the study of religion from the comparative point of view,

treating of the underlying principles of religion as shown in the religious phenomena of different nations and races, from lower to higher forms of religious expression. The course is divided into two parts. The first part, which will continue through the first term and a few weeks of the second term, will deal with the general principles of religious evolution. The second part, occupying the remainder of the second term, will be devoted to the study of special religions which illustrate these principles, the religions of China, India, Persia, Babylon, Egypt, etc.

B 5 *Foundations of Knowledge* [after A 1 or A 4]. 1 hr.

Professor DUNCAN.

A study of the nature, limits, and grounds for the validity of our knowledge of reality—the soul, the world of things, and God. The questions, 'What are the limits of knowledge inherent in the very constitution and laws of the human intellect?' and 'What can man, from the very nature of his powers of cognition, not know, and what, with these powers, may he hope to know?' will be considered; including an examination of 'phenomenalism,' the 'relativity of knowledge,' and other current forms of agnosticism. Flint's *Agnosticism* (Charles Scribner's Sons, N. Y., 1903).

B 6 *Experimental Psychology (Laboratory Course)* [after A 1]. 3 hrs.

Drs. JUDD and MCALLISTER.

A course dealing with the methods and results of experimental investigation of mental phenomena. Two hours a week will be devoted to laboratory exercises. In this part of the course each member of the class will perform a series of typical experiments selected so as to familiarize the student with all the essential subjects belonging to experimental psychology. The third hour each week will be devoted to a critical discussion of the methods employed in the laboratory exercises, of the results obtained, and of the significance of each experiment for systematic psychology. This part of the course will consist of lectures, reports and general class discussion.

B 7 *Aesthetics* [after A 1 or A 4]. 1 hr.

Dr. DAVIES.

The object of this course is to review the history of thought on the subject of the beautiful; to give a philosophical account

of the foundations upon which the arts rest; and to study scientific art-theory in its relation to general philosophical system. Bosanquet's *History of Aesthetics*, Rutgers Marshall's *Pain, Pleasure, and Aesthetics*, and other works, will be read in connection with the course.

B 8 *Popular Discussions in Philosophy* [after A 1 or A 4]. 1 hr.

Dr. HESS.

This is a course in philosophical criticism, and is intended to develop and train the critical spirit; to deepen interest in the more profound themes of philosophy by showing their connection with popular life and thought; and to vindicate sound psychology and a theistic philosophy. To this end some of the popular philosophical papers of Huxley, Tyndall, Clifford, Spencer and others are read and freely discussed.

B 9 *Systematic Pedagogy* [after A 1 or A 4]. 1 hr.

Dr. ROWE.

This course will give a general survey of the field of education. The relation of Pedagogy to allied subjects, and the fundamental aims, principles and methods of education in organization, discipline and instruction will be discussed. The course thus consists of two parts: (1) *educational foundations*, and (2) the *methodology of education*. [The work for the year 1903–1904 will include only the first part.] These subjects will be considered in both their theoretical and practical aspects. Pains will be taken to acquaint the student with the most helpful books in the wide range of educational literature. Papers and collateral reading will be required.

The course is intended both for those who wish some acquaintance with this department of knowledge and for those who intend to teach.

B 10 *Experimental Pedagogy* [after A 1 or A 4]. 1 hr.

Dr. MCALLISTER.

A summary of the results of experimental methods as applied to educational subjects. The topics treated will include: training of the senses, observation, memory, quickness of perception and thought, writing, drawing, fatigue, and study of children.

B 11 *History of Education* [after A 1 or A 4].
[Seniors.] 2 hrs.

Dr. TAYLOR.

This course will comprise lectures, readings, and reports. It has four aims: the study of educational practices and institutions; the study of educational theorists; the bearing of past experience on modern problems; education as an aspect of social development. It is especially, but not exclusively, adapted to those who are interested in educational work.

B 12 *French Philosophy in French* [after A 1 or A 4].
[Seniors.] 2 hrs.

Dr. MONTGOMERY.

Discussions of the French schools of philosophy in the nineteenth century. The class will read in French some of the essays in Caro's *Philosophes et Philosophie*, and then take up the reading of current discussions in some recent French philosophical magazine.

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*C 1 *Philosophy of Conduct* [after B 1 or B 2]. 2 hrs.

Professor LADD.

The principal topics of Ethics will be discussed with a view to the formation of an intelligent and comprehensive theory of man's moral nature and development. Among these topics especial attention will be given to the following: the origin and nature of the feeling of moral obligation, the sources of ethical judgments, the nature and proofs of moral freedom, the classification and character of the different forms of virtuous living, the unity of virtue, the validity and universality of moral law, the nature of the moral ideal, and the nature and ground of the morally Good, or the Right. Special attention will be directed throughout to the self-discipline and ethical aspects of the teacher's work. The exercises will consist, in general, of a lecture to be followed by a paper and discussions by the class.

*C 2 *Kant Seminary* [after B 1 or B 2]. 2 hrs.

Professor LADD.

The entire year will be spent in a thorough, critical study of Kant's *Critique of Pure Reason*. The work will be done by the

students themselves under the direction of the professor; and each member of the class will be in turn responsible for an elaborate paper, interpreting and criticizing the positions of the author of the *Critique*, to be followed by questions and discussions by the class. The passages assigned for this seminary work will correspond throughout the year to those assigned for reading in the course in Philosophical German.

*C 3 *Theism and Apologetics.* [Seniors.] 1 hr.

Professor STEVENS.

A study of the philosophical principles which underlie the defense of theism, and of their application in Christian theology.

Open only to those who take Professor Bacon's courses in *Christological Epistles* and *New Testament Encyclopædia*, p. 47.

*C 4 *Modern Philosophy* [with or after B 2]. 3 hrs.

Professor DUNCAN.

A study of the systems of speculative thought from Descartes to the present time, with cursory reading of philosophical masterpieces from Descartes to Kant: Descartes' *Method* and *Principles of Philosophy*, pt. i; Bacon's *Novum Organum;* Spinoza's *Ethics*—selections; Locke's *Essay on Human Understanding*—selections; Leibnitz's *Monadology and Philosophical Opuscules;* Berkeley's *Principles of Human Knowledge;* Hume's *Inquiry concerning Human Understanding;* Reid's *Inquiry into the Human Mind;* Kant's *Prolegomena to Any Future Metaphysic.* Two hours of this course are coincident with course B 2, and consist of expository and critical lectures, with frequent written exercises on the texts read and occasional examinations on both the lectures and texts. The third hour is devoted to *seminary* work: the informal consideration of important problems.

[*C 5 *Philosophy of Evolution* [after B 1 or B 2]. 2 hrs.

Professor DUNCAN.

This course is a study of the Evolution Theory of Spencer in its psychological, ethical, and metaphysical aspects. Spencer's *First Principles*, *Principles of Psychology* (selections), and *Data of Ethics* are read and discussed.

Omitted in 1903–1904.]

*C 6 *Philosophical System* [with or after B 1]. 3 hrs.

Professor SNEATH.

Two hours of exercises and lectures in this course are coincident with those of B 2. Those taking it will be assigned in addition an increased amount of collateral reading, and will be required to prepare a thesis of a constructive character, on an assigned topic.

*C 7 *Philosophy of Mind* [after B 1 or B 2]. 2 hrs.

Professor SNEATH.

Beginning with the facts and laws established by empirical psychology, this course aims at the construction of a metaphysic of mind. The following are some of the subjects to be treated: The concept of mind; the reality, nature, genesis, and destiny of mind; the relations of mind and body; materialistic objections, etc. The latter part of the year will be devoted to a study of the history of the philosophy of mind from Descartes to Kant.

*C 8 *Genetic Psychology* [after B 6]. 1 hr.

Dr. JUDD.

A course of lectures and readings dealing with the facts and principles of mental development. A comparative study will be made of mental development as exhibited in adult life and in the child. Animal consciousness, race consciousness, and the results of biological study of physical development, will be treated in so far as they throw light on the main problem.

*C 9 *Psychology (Experimental Problems)* [with or after B 6]. 3 hrs.

Dr. JUDD.

This course is designed for advanced students who are preparing to undertake psychological investigations. It will consist of laboratory exercises and lectures. Three problems will be taken up in the course of the year, and will be made subjects of thorough investigation in the laboratory exercises. The problems for 1903–1904 are as follows: the effects of practice on the Zöllner illusion, binocular color-mixing, the perception of time in simple rhythms. The lectures will present a brief historical survey of certain lines of psychological investigation and will aim to indicate the directions in which new investigations are required.

*C 10 *The Philosophy of Lotze* [after B 1 or B 2]. 2 hrs.
Dr. HESS.

An exposition and criticism of the philosophy of Lotze as contained in his *Microcosmus*, which deals with such philosophical problems as the relation of philosophy, science, and religion; the different views of nature, especially the mechanical and teleological explanations; the conception of 'law' in nature, and evolution; the existence and the immortality of the soul; man as a moral and as a religious being; the existence and nature of God and the relation of God to the world; the problem of evil; etc.

*C 11 *Philosophy of Nature* [after B 1 or B 2]. 2 hrs.
Dr. CHURCHILL.

Discussion of some of the main contributions made by the natural sciences to a general Theory of Experience. An attempt to harmonize philosophy with scientific fact and scientific theory with philosophy.

Topics considered: Meaning of the term "experience"; philosophy as the endeavor to unify experience; different kinds of reality; the "thing" and its "properties"; change and causality; natural law; fundamental concepts of the mathematical sciences; various forms of materialism; the doctrine of energetics; fundamental concepts of the biological sciences; Weismann *vs.* Lamarck; effect of the theory of evolution upon philosophy; psychology and the philosophy of nature; psychophysical parallelism; influence of scientific progress upon the development of philosophy; present problems and tendencies. Lectures by the instructor, collateral readings and brief papers by members of the class.

*C 12 *Recent German Psychology in German* [after A 1 or A 4]. [Seniors.] 2 hrs.
Dr. MONTGOMERY.

The class will read as much of Ebbinghaus's *Psychologie* as possible, and also extracts from other recent German psychologists, Jodl, Wundt, Brentano, Münsterberg, Külpe, Stumpf, and others. The principal object of the course is to obtain a reading knowledge of the German psychologists; at the same time the instructor will indicate the differences in their positions.

## XVIII. HISTORY

A 1 *European History.* 3 hrs.

Assistant Professor RICHARDSON, Dr. FORD, Mr. DURFEE.

This course is introductory to the courses in history offered in the Junior and Senior years. A general survey of the political, economic, and social development of the European peoples from the fourth to the end of the nineteenth century.

Informal lectures with quizzes and written tests on the text-books and a selected list of contemporary documents.

(The following courses, except B 1, B 2 and B 3, will presuppose such a general knowledge of European history as would be acquired by successfully completing course A 1. Students who have not passed course A 1 must secure the permission of the instructor to take courses of B grade. Students who expect to do their work of C grade in history should take course A 1 in Sophomore year.)

B 1 *Ancient Oriental Nations from the earliest times.* . 2 hrs.

Assistant Professor F. W. WILLIAMS.

A comprehensive survey of the beginnings of civilization, and its development in the principal nations of antiquity, including Babylonia, Assyria, Egypt, Phoenicia, and Media. This course illustrates the connection of Biblical and profane history, discusses the origins of political and social institutions, religions, the arts and sciences, and the Asiatic sources of European civilization, and constitutes an introduction to the study of history.

B 2 *Outline Survey of Ancient History.* 1 hr.

Professor PERRIN.

Lectures, based on manual-study, outlining and emphasizing such general features of ancient history as are most valuable for the intelligent prosecution of medieval history. Oriental history is presented only as background and source for Greek and Roman history.

B 3 *Outline Survey of Ancient History.* 2 hrs.

Professor PERRIN.

The same as B 2 except that private readings will be assigned, and special examinations will be held on these readings.

B 5 *Medieval History, first half.* 2 hrs.

Professor ADAMS.

From the beginning of the fourth to the tenth century. The subjects most fully discussed will be the fall of Rome; the spread of Christianity; the foundation and organization of the new German states; the beginning and growth of the papal power; the formation of the Frankish state; the rise and conquests of Mohammedanism; the empire and reforms of Charlemagne; and the separation of his empire into the modern states.

The development of civilization will be kept constantly in view throughout, and such institutions of both church and state as exerted an influence upon later times will receive especial attention.

(This course alternates with course B 6.)

[B 6 *Medieval History, second half.* 2 hrs.

Professor ADAMS.

From the beginning of the tenth to the middle of the fifteenth century. The earliest organization of the modern states; feudalism and feudal society, considered institutionally and economically; the Holy Roman Empire and the monarchical papacy; the crusades and their results; the growth of commerce, and the rise of the third estate to political influence; the intellectual renaissance of the thirteenth century, with the beginning of universities and the revival of Roman law; the rise of England and France with contrasted constitutions, the conflict between them, and the decline of Germany; and the beginning of modern diplomacy.

Omitted in 1903–1904.]

B 7 *Medieval Asia and the Mohammedan Conquest.* 2 hrs.

Assistant Professor F. W. WILLIAMS.

An outline history of western Asia from the death of Alexander to the conquest of Constantinople, supplementary to the

history of the Roman Empire and of medieval Europe. The course combines the study of text-books and recitations on Parthia, the Saracens and Ottoman Turks with lectures and research work on special topics connected with the period. It shows the nature of Hellenistic influences in the East, their gradual effacement under Parthian and Persian rule and their disappearance after the Arab conquest; it treats of the development of Christianity as an institution, of its political rôle and its struggles with Paganism and Islam, and of the antagonisms between Oriental and European civilization.

[B 10 *History of Northern Europe from the Reformation to the death of Frederic the Great.* 2 hrs.

Assistant Professor RICHARDSON.

During the first half of the course interest centers in the religious and political rivalries of the era of the Reformation; in the latter half in the History of Brandenburg-Prussia from the time of its rapid economic, political, and military development under the Great Elector and Frederic William I to its acquisition of world-power under Frederic the Great in contest with Austria and France.

Considerable attention will be given to the history of the Prussian constitution and to topics of economic interest, such as the decline of the Hanseatic League, the economic results of the Thirty Years' War, and the development of the resources of Brandenburg-Prussia by its greatest rulers.

Lectures and collateral reading.

Omitted in 1903–1904.]

B 11 *History of France from the Reformation to the French Revolution.* 2 hrs.

Assistant Professor RICHARDSON.

This course deals not only with the internal history of France, but also with its relations to the larger problems of modern European history—the progress of the Reformation and the counter-Reformation, the formation and development of the modern European state-system, colonial expansion, the great wars and treaties of the modern epoch, the growth of political and economic science, and the political and intellectual movements preparatory to the Revolutionary epoch.

Lectures and collateral reading.

(This course alternates with B 10.)

B 12 *History of Prussia in the Nineteenth Century.* 1 hr.
Dr. FORD.

This course will cover the history of Prussia since Frederic the Great with special reference to the formation of modern Prussia, the unification of Germany and the work of Prince Bismarck. After sketching conditions in Germany in 1800 it will treat such topics as the collapse of the old political order, the reforms of Stein, Hardenberg and Scharnhorst, the War for Liberation, the political reaction after 1815, the rise of the middle class, the formation of parties, the revolution of 1848, William I as regent and King, rise of Bismarck, struggle with Austria for supremacy in Germany, the Franco-Prussian War and the formation of the Empire, Bismarck's dominance till 1888, parties and problems in Prussia to-day. Lectures and readings.

B 13 *Modern Asiatic History.* 2 hrs.
Assistant Professor F. W. WILLIAMS.

A course embracing successively the regions of India, Japan, China, and central Asia, with particular regard to their history since the seventeenth century, their governments, and their relations with European powers. The culture, faiths, and sociology of existing nations in the Far East are here considered with a view of interesting those whose historical knowledge is confined to the Western world. The course is designed to stimulate further reading by students in special topics suggested by the instructor, upon which written essays will be presented and discussed. It also offers an opportunity for those contemplating missionary careers to acquaint themselves with the political and social condition of the more important foreign missionary fields.

B 15 *American History* [*1492–1763*]. 2 hrs.
Professor BOURNE.

This course will deal with the history of the American Colonies from the beginning of the discoveries until the beginning of the American Revolution. The nature and objects of colonies, the character and aims of the colonists, the political, economic and social development of the colonial communities, will be the leading topics. The course will include a survey of the French and Spanish colonial establishments in America. Lectures, required reading and the study of selected topics.

B 16 *American History* [*1763–1860*]. 2 hrs.
Professor BOURNE.

A general course in the political history of the United States from the beginning of the Revolution to the Civil War. The causes and process of the Revolution, the formation of the Union, the rise and growth of parties, the development of democracy, the influence of the westward expansion and of slavery on political life, and the origin and significance of the more important economic questions will be discussed. Lectures and required reading.

B 17 *American Constitutional History and Government.* [Juniors.] 2 hrs.
Professor C. H. SMITH.

A historical study of the Federal Constitution, mainly of the articles relating to the general government in its three departments, legislative, executive, and judicial. The plan of the course is to take each important feature of the National Government provided for in the first three articles of the constitution, and set forth its origin and purpose, and (in outline) its practical operation to the present time. Corresponding features of a State Government will be noticed, and an outline study of the State constitutions may be given. This course can be taken with advantage, either as an introduction to the Law courses in Senior year, or as a first course to be followed by the constitutional courses of Senior year. Instruction will be given by lectures, with the *Federalist* and Bryce's *American Commonwealth* used as text-books. Weekly written recitations, and two essays during the year will be required.

(This course will be continued and completed in Senior year in a half-year course taking up the "Bill of Rights," and those portions of the constitution which treat of the rights, duties, and limitations of the States in our Federal system.)

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*C 1 *The Renaissance and Reformation.* 1 hr.
Assistant Professor RICHARDSON.

In this course the Renaissance and Reformation will be treated primarily as intellectual movements and considered in their relations to the intellectual development of Europe; political history will be noticed in so far only as is essential. Students will be required to do much work in the library.

This course should be preceded by B 5 or B 6.

*C 2 *Studies in the History of the Eighteenth Century.* 1 hr.

Assistant Professor RICHARDSON.

The following are the principal topics considered: English theories of government, French theories of government, and their interaction; the decline of the French Monarchy to the Revolution, embracing the study of the practical workings of the system and the causes of decline; theories of benevolent despotism, with practical examples of their application in the Prussia of Frederic the Great, the Austria of Joseph II, and the Spain of Charles III.

The student will use much original material, and a reading knowledge of French or German is required.

*C 3 *History of Europe since 1789* [counted as a C grade if taken after any one of the following courses: B 5, B 6, B 10, B 11; otherwise the course counts as a B grade]. [Seniors.] 2 hrs.

Professor WHEELER.

Mainly political; introductory to European politics of our day.

*C 4 *English History to 1485* [counted as a C grade if taken after or with C 5 or after any one of the following courses: B 5, B 6, B 10, B 11, or B 17; otherwise the course counts as a B grade]. [Seniors or Juniors.] 2 hrs.

Professor ADAMS.

Chiefly constitutional. The political history will be studied as a basis for the constitutional. The purpose of the course will be to show how the Anglo-Saxon system of self-government arose, and how the chief features of the present English constitution took form. Especial attention will also be given to the rise of judicial institutions—the organization of the courts, the introduction of the jury, the beginning and growth of the common law, etc. The more important constitutional documents will be discussed in detail. While the course is of especial value to those who intend to study law, the interests of the general student will be kept in view.

*C 5 *English History from 1485* [counted as a C grade if taken after or with C 4 or after any one of the following courses: B 5, B 6, B 10, B 11, B 17; otherwise the course counts as a B grade].
[Seniors or Juniors.] 2 hrs.

Assistant Professor RICHARDSON.

Political and constitutional. Particular attention will be given to the development of political and judicial institutions, and to the colonial expansion of England. The more important constitutional documents will be discussed in detail as well as such other contemporary sources as are accessible. While this course is of special value to those who intend to study law, the interests of the general student will be kept in view. This course is a continuation of course C 4 and brings the history down to the present day.

*C 6 *European Colonies in Asia and Africa.* [Seniors.] 2 hrs.

Assistant Professor F. W. WILLIAMS.

The history of colonization as undertaken and systemized by European nations in modern times especially in regions already populated. In connection with the causes leading to the acquisition of colonies, the development of the colonial administration of each of the great powers is treated in turn. The course will involve the investigation of special subjects assigned by the instructor and the critical discussion of brief theses written upon them.

*C 7 *The Territorial Expansion of the United States (1803–1899)* [after B 15, B 16, B 17]. 1 hr.

Professor BOURNE.

An introductory course in historical investigation. Individual assignments of topics for investigation in the sources, lectures and required reading. The main topics will be the Louisiana Purchase, the annexation of the Floridas, and of California and New Mexico, the Oregon question, the purchase of Alaska, the San Domingo question, the acquisition of Porto Rico and the Philippines.

*C 8 *United States since 1860* [counted as a C grade if taken after B 16 or B 17; otherwise the course counts as a B grade]. [Seniors.] 2 hrs.

Professor C. H. SMITH.

*First half* (to Feb. 15). A study of the Civil War, in continuation of American History, B 16.

*Second half* (after Feb. 15). Mainly constitutional, in continuation of American History, B 17. Those parts of the constitution which were not taken up in Junior year will pass under review, and a careful study will be made of Reconstruction in its constitutional aspects. Attention will also be given to some of the most important features of our history since 1877.

*C 9 *United States since 1860.* [Seniors.] 2 hrs.

Professor C. H. SMITH.

This course is intended primarily for graduate students. It may be taken without special permission by Seniors with a B.A. degree from another college. A few other Seniors may be permitted to take it on application to the instructor. In its scope, this course is essentially the same as C 8; but it offers the advantages of fuller discussion in the class-room, and more satisfactory use of the library than is possible for a large class.

*C 10 *American Civil War* [after B 15, B 16, or B 17]. [Seniors.] 1 hr.

Professor C. H. SMITH.

This course is the first half of C 8, coming at the same hours, twice a week, until February 15, and is counted as a one hour course for the year.

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The following Graduate course in the History of Art is open to those undergraduate Juniors and Seniors who are taking or have completed the course in Drawing.

A 2 *History of Art.* [Juniors and Seniors.] 2 hrs.

Professor D. CADY EATON.

First Term, Assyrian, Egyptian, and Grecian Art.

Second Term, Roman, Gothic, and Renaissance Art.

Lectures and recitations.

Text-books—Marquand and Frothingham's *History of Sculpture;* A. D. F. Hamlin's *History of Architecture;* John C. Van-Dyke's *History of Painting.*

## XIX. THE SOCIAL SCIENCES

### SUGGESTIONS AS TO CHOICE OF COURSES

Those who plan to devote special attention to the Social Sciences, and to take C courses in this department, are advised to take:

In Sophomore year: A 1, *Elementary Economics*, as introductory to the B and C courses in Economics; also *Calculus* as introductory to some of the B and C courses in Economics and Statistics under Professor Fisher and Dr. Norton.

In Junior year: A 30, *The Science of Society*, or A 10, *Elementary Statistics*, or both, as introductory to those fields; also one or more B courses in economics.

In Senior year: one or more C courses together with one or more B courses.

Those who have only a general interest in the Social Sciences, and do not plan to take C courses in this department, are advised to take:

In Sophomore or Junior year: A 1, *Elementary Economics*.

In Junior or Senior year: one or more of the other A or B courses, according to which covers the desired field, or bears on the special line of study pursued.

A 1 *Elementary Economics*. [Sophomores, Seniors and Juniors.] 3 hrs.

Professor EMERY.

Lectures, one hour a week on the outlines of economic science and on contemporary economic problems. Two hours a week are occupied by quiz-exercises in small sections under Professors Emery and Fisher, Assistant Professor Day, Dr. Norton, and Mr. Tuckey.

A 9 *Comparative Politics* [after or with A 1]. [Juniors and Seniors.] 2 hrs.

Dr. CUTLER.

A comparative study of the leading constitutional states, England, France, Germany, Switzerland, etc.; the United States

Federal, State and municipal government. Especial attention will be given to the organization and problems of the modern city. Assigned readings in representative text-books, discussions and tests. Lectures upon the nation, the nature and origin of the state, the development of modern governments.

A 10 *Elementary Statistics.* [Juniors and Seniors.] 2 hrs.

Assistant Professor W. B. BAILEY.

The sources and reliability of statistical data are discussed, and the methods of distinguishing true and false inferences are pointed out. Index numbers are studied, and the lectures treat of the statistics of population, crime, suicide, property, etc. The attempt is made to determine the laws which govern the group action of men.

Text-book: Mayo-Smith's *Science of Statistics.*

A 30 *The Science of Society.* [Juniors.] 2 hrs.

Assistant Professor KELLER.

This course is introductory to the course in the Systematic Science of Society to be offered by Professor Sumner in 1904–5. In connection with text-books, upon which there will be daily writing or recitation, lectures will be designed to supplement and elucidate the text, and to afford the student a general knowledge of the doctrine of evolution as it applies to man and human society.

Topics covered: the antiquity of man; the relation of man to other animals; racial differences; language; the arts of life; the spirit-world; etc. A general survey of the races of man, and a more special study of one or more selected races and societies will follow.

*A 39 *Debates on Public Questions.* [Seniors.] 2 hrs., *to count as 1 hr.*

Mr. TROWBRIDGE.

Members of the class will conduct debates each week on subjects of public interest. The preparation will consist of special study and investigation, appointments for consultation with the instructor, and the drawing and interchange of briefs.

A 40 *Law.* [Seniors.] 5 hrs.

Professors S. E. BALDWIN, WURTS, and others.

This course is intended for those who wish to begin the study of law as a profession, or desire a knowledge of the subject for business purposes.

Professor BALDWIN: *American Law*, Lectures; *Agency*, Recitations; *Wills*, Lectures and study of cases.

Professor WURTS: *Evidence*, Lectures; and recitations.

Professors WURTS: *Elementary Law* and *Contracts.*

Text-books: in *Contracts; Evidence; Elementary Law.*

A 41 *International Law.* [Seniors.] 1 hr.

Professor WOOLSEY.

Lectures with monthly written tests. An exposition of the rules which govern the relation of states in peace and in war. Designed to be useful in understanding international politics: for training in intelligent citizenship; also as a basis for certain branches of legal practice.

The following courses may be taken in connection with A 40, *Law.* These courses will be counted toward the attainment of the degree of LL.B. [as courses A 40 and A 41 are], but will not be counted toward the attainment of the degree of B.A.

*a. Public Wrongs.*
Professor G. E. Beers and Mr. Webb.

*b. Contracts.*
[Not to be taken unless (*a*) is also taken.]
Mr. Corbin.

*c. Pleading at Common Law.*
[Not to be taken unless (*a*) and (*b*) are also taken.]
Professor Prentice.

See also course Latin B 10, in Roman Law. [page 36.]

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B 2 *Financial and Industrial History* [after A 1]. 3 hrs.

Professor SCHWAB.

Two lectures and one quiz-exercise a week.

Topics covered: the mechanism of money and banking, as illustrated especially in the financial history of the United States; the origin and growth of the modern industrial organization.

Text-books: Dunbar's *Banking;* Dewey's *Financial History of the U. S.;* White's *Money and Banking;* Jenks' *Trusts.*

B 11 *American Social Conditions* [after A 1 or A 10]. 2 hrs.
Assistant Professor W. B. BAILEY.

A critical study of the principal phenomena that are characteristic of American society. The problems connected with the negro, concentration of urban population with the attendant dangers, immigration, crime, poor relief, labor organizations, liquor question, etc., will be presented in lectures.

Text-books: Wright's *Elements of Practical Sociology.*

B 16 *Economic Organization in Europe* [after A 1]. 2 hrs.
Assistant Professor DAY.

A study of the economic organization in the different countries of Europe, with reference in each to the relative importance of agriculture, manufactures and trade, the characteristic organization of each branch of production, the influence of economic conditions on social and political organization and on international position.

[B 22 *Economic Theory* [after A 1]. 2 hrs.
Professor IRVING FISHER:

This course will treat of (1) methods of economic study with especial reference to the use of mathematics in economics and statistics, and (2) the applications of these methods to the more difficult problems of economic theory, such as value, prices, price levels, capital, interest, distribution, and international trade.

Omitted in 1903–1904.]

B 31 *The Science of Society* (counted as a B grade if taken after A 1; otherwise the course counts as an A grade). [Seniors.] 2 hrs.
Professor SUMNER.

An elementary course, with text-book lessons and examinations, in Anthropology and Ethnology, with the origin of civilization and the development of institutions.

In connection with this will be a course of lectures on Systematic Sociology [Societology]. Topics: The organization

of society; the individual and the social; social forces; militarism and industrialism; property; marriage, family, and the status of women; primitive notions in religion and philosophy; civil government, law and rights; slavery and classes; economic interests and their collisions; conditions of welfare; origin of moral standards; reaction of reason on experience. These topics are treated exclusively in the light of Historical Anthropology and Ethnology.

B 32 *The Science of Society* (counted as a B grade if taken after A 1; otherwise as an A grade).
2 hrs., *to count as 3 hrs.*

Professor SUMNER.

A course with a German text-book (Lippert's *Kulturgeschichte;* 2 vols., Stuttgart, 1887), for those who are able to read difficult German. The exercises are coincident with those of course B 31, including the lectures as above.

[B 35 *Colonization (Economic and Social)* [with or after A 1]. [Juniors and Seniors.] 2 hrs.

Assistant Professor KELLER.

Colonization as a sociological and ethnological process. A preliminary sketch of ancient and medieval expansion and colonization, followed by a closer study of the experience of the several colonizing states of modern times. Emigration, colonial trade, frontier society, the native question, etc. Text-books dealing with British colonies and colonial policy will be used; the other colonial powers will be treated in lectures.
Omitted in 1903–1904.]

B 45 *Insurance* [after A 1]. 2 hrs.

Lectures, one hour a week, by heads of insurance companies and others practically acquainted with insurance; the second hour will be devoted to a quiz-exercise. During the year 1903–1904 the lectures are given by Mr. John M. Holcombe, Vice-Pres. Phoenix Mutual Life Ins. Co., Hartford; Mr. John K. Gore, Actuary Prudential Ins. Co., Newark, N. J.; Mr. Walter S. Nichols, editor "Insurance Monitor and Law Journal"; Mr. John B. Lunger, Vice-Pres. Travelers' Insurance Co., Hartford; Prof. Henry W. Farnam, of Yale University; Mr. R. M. Bis-

sell, Vice-Pres. Hartford Fire Ins. Co.; Mr. A. A. Raven, Pres. Atlantic Mutual Marine Ins. Co., New York; Mr. J. M. Allen, Hartford Steam Boiler Ins. Co.; Mr. S. C. Dunham, Pres. Travelers' Ins. Co., Hartford; Mr. Charles E. Gross, Hartford; Hon. John F. Dryden, Pres. Prudential Ins. Co., Newark, N. J.; Hon. John A. McCall, Pres. N. Y. Life Ins. Co., New York; and Mr. J. W. Alexander, Pres. N. Y. Equitable Assurance Co., New York.

The quiz-exercises will be conducted by Dr. John M. Gaines, New York Life Ins. Co., and Mr. Archibald A. Welch, Actuary Phoenix Mutual Life Ins. Co., Hartford.

This course is intended for those who wish a general knowledge of insurance, including any who are planning to enter the field professionally in office or agency work. It will treat of the general nature and economic functions of insurance in all its branches, especially life, fire and marine insurance.

It will embrace (1) the history and statistics of the development of insurance; (2) the study and application of the theory of chances to the calculation of insurance premiums, for various kinds of policies; (3) the economic influence and importance of insurance; (4) office and agency organization.

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*C 4 *Finance* [with B 2]. 1 hr.

Professor SCHWAB.

Lectures and assignment of subjects for individual research.

Topics covered: the methods and usages of the money market; instruments of credit and other commercial documents; their economic functions; corporate securities and accounts.

Text-books: Cleveland's *Funds and their Uses;* Greene's *Corporation Finance;* Sumner's *Investment Securities; Financial Review*, and others.

*C 5 *Industrial Combinations* [with B 2]. 1 hr.

Professor SCHWAB.

Lectures and assignment of subjects for individual research.

Topics covered: the organization, promotion, operation and finances of industrial combinations or so-called trusts; their relation to the wage-earner, the consumer and the investor.

Text-books: Meade's *Trust Finance*, *Financial Review*, *Report of the Industrial Commission* (copies in the University Library), and others.

*C 6 *Public Finance* [with B 2]. 1 hr.

Professor SCHWAB.

Lectures and assignment of subjects for individual research.

Topics covered: The methods and problems of taxation, especially in the United States; legal and economic aspects; the taxation of corporations; municipal finances; Federal finances.

Text-books: Plehn's *Public Finance*, and others.

[*C 7 *Commerce and Commercial Policy in the Nineteenth Century* [with B 2 or B 16]. 2 hrs.

Professor EMERY.

A study of the growth of international trade and the changes in commercial policy in the last one hundred years, especially in the leading countries of Europe. A reading knowledge of French or German is important for the work of this course.

Omitted in 1903–1904.]

*C 8 *Railroads* [with B 2 or B 11]. 2 hrs.

Professor SCHWAB, Assistant Professor BAILEY and Dr. NORTON.

Lectures upon the development of railroad transportation in the United States and in Europe; the financial and technical problems; railroad consolidation and taxation; the Interstate Commerce Act, and its relation to pooling and discrimination.

Individual research: analysis of railroad reports and statistics.

Text-books: Hadley's *Railroad Transportation*, and others.

*C 12 *Labor Problem* [with B 2 or B 11]. 1 hr.

Assistant Professor W. B. BAILEY.

The various theories concerning the payment of labor, the conflicts between capital and labor, strikes, lockouts, coöperation, profit-sharing, arbitration, compulsory insurance, the effects of the increasing employment of women, and the various plans for the amelioration of the condition of the workingmen. Each student will carry on a special investigation of an assigned topic.

*C 13 *Trade Statistics* [with B 2]. 1 hr.

Dr. NORTON.

The condition of trade viewed from the standpoint of (i) the international movement, (ii) bank clearings, (iii) the money supply, (iv) the outlook for the harvests, and (v) earnings of corporations. Crop forecasts, visible supplies, etc.

[*C 14 *Interpolation* [with B 2]. 1 hr.

Dr. NORTON.

Methods of fitting curves to series of statistics in analysis of relations among variables; also the theory of correlation of two or more variables. Practice in handling statistical data.

Omitted in 1903–1904.]

*C 17 *Economic History of Europe* [with B 2 or B 16, or History B 5 or B 11]. [Seniors.] 2 hrs.

Assistant Professor DAY.

A study of the development of the industrial organization in Europe from the period of the Germanic invasions to the industrial revolutions of the nineteenth century. The course is designed mainly to describe the development of economic institutions, incidentally to point out the bearing of this development on that of legal and political institutions.

*C 21 *Theory of Capital* [with a B course]. 2 hrs.

Professor IRVING FISHER.

This course will treat of capital in its relation to income, distribution and interest. Among other topics will be considered the effects of invention on the accumulation of wealth, the influence of modern capitalistic methods of production on the laboring classes, the socialistic criticism of these methods, and the history and theory of the rise and fall of great fortunes.

[*C 25 *History of Economics*, Part I [with a B course]. 2 hrs.

Professor EMERY.

The history of economic ideas, with special reference to economic policy, from the Middle Ages to the middle of the nineteenth century. Lectures and readings in contemporary authors, with class-room discussion.

Omitted in 1903–1904.]

*C 26 *History of Economics*, Part II [with a B course]. 2 hrs.

Professor EMERY.

This is a continuation of the above course (C 25), uses the same methods, and is given in alternate years. It deals with the later reactions from the Classical School, protectionism, socialism and the historical school.

[*C 33 *Statistical Theory of the Evolution of Man* [after A 1 or A 10 and with B 31 or B 32]. 2 hrs.

Dr. NORTON.

Statistical methods for handling the data of the somatic evolution of man. Special reference will be made to the problems under variation, heredity, panmixia, regression, selection and prepotency, with passing notice of some practical applications in life insurance. The methods of Pearson, Yule and Galton will be discussed.

Omitted in 1903–1904.]

[*C 36 *Colonization (Economic and Social)* [with or after A 1 and with B 31 or B 32]. 3 hrs.

Assistant Professor KELLER.

The same course as B 35, to count as three hours, for students who do additional work in the way of special reports involving the use of some foreign language.

Omitted in 1903–1904.]

*C 38 *Ethnology* [with B 31 or B 32]. 2 hrs.

Assistant Professor KELLER.

A study of existing nations and tribes; their manners, customs, etc.; analysis and comparison of national traits. The course will deal chiefly with the life of savage and partially civilized peoples, and will be based primarily upon a careful study of Ratzel's *History of Mankind*. The text-book work will be supplemented with lectures, papers and the use of all the illustrative material that may be available.

## XX. THE FINE ARTS

A 1 *Drawing.* [Juniors.] 2 hrs.

Professor NIEMEYER.

This course consists of two exercises a week, of two hours each, in drawing from the antique and from life, and also in sketching from nature out of doors. Exercises in original composition are required from time to time. It is the aim of this course to teach the fundamental principles of Art, and to make the student familiar with the use of pen and pencil.

The work in drawing is supplemented by lectures in linear perspective and the analysis of the muscular movements of the human body as expressed in the external forms.

To those who are interested in Art only as part of a liberal education, as well as to those who wish to make Art in any form a profession, this course is equally adapted. Work done outside of the class-room is encouraged and carefully considered when brought for criticism.

*No previous knowledge of drawing is necessary to enter this course.*

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B 1 *Architecture* [after A 1]. 2 hrs.

Professor NIEMEYER.

This course is adapted to students who wish to prepare themselves to enter a school of architecture or an architect's office.

It consists in lectures on the styles in architecture, the historical development of ornament and its artistic significance. The study is principally by means of free-hand drawing with pen and brush, although instruments are used when necessary, and the conventional shades and shadows are carefully constructed.

A written examination on the chapters of Dr. Reber's *History of Ancient Art* relating to Greek Architecture will be held about the middle of the second term.

This course follows A 1, which must be taken first. A satisfactory equivalent will, however, be accepted.

B 2 *Painting* [after A 1]. [Seniors.] 2 hrs.

Professor WEIR.

Two exercises a week, of two hours each. The course consists principally of studies in Water-Color Painting, and includes lectures on the Grammar of Art, on Painting, Sculpture,

and Architecture, technically considered, with a critical account of the various Schools and their representative Masters. The lectures are fully illustrated by the use of the hydro-oxygen lantern.

B 3 *Modeling* [after A 1]. [Seniors.] 2 hrs.

Professor WEIR.

Two exercises a week, of two hours each. The course consists in modeling from the antique and from the living figure, and is supplemented by the lectures given in course B 2.

## XXI. MUSIC

A 1 *Harmony.* 2 hrs.

Mr. DAVID STANLEY SMITH.

The study of chords, their construction, relations and progressions. This course covers the following subjects:

Intervals, triads, seventh chords, modulations, chromatically altered chords, suspension, organ point, passing and changing notes.

Figured bass is used only as a means of designating chords. Attention is turned at once to the harmonizing of melodies.

The original principles from which rules are derived are discussed and students are encouraged to exercise and cultivate their own judgment in the application of these principles.

Particular attention is given to the natural, melodic, and harmonic tendencies of tones and intervals. The subject of modulation is treated with special care and at length. Exercises are corrected in the class-room, with explanations and illustrations.

A 3 *The History of Music.* 1 hr.

Professor PARKER.

Lectures on the development of music from its earliest stages. History of Church Music from the time of Gregory; History of Opera and Oratorio; Biographical sketches of famous composers, with description and analysis of their principal works; History of purely instrumental music, showing the growth and development of musical forms up to their culmination in Beethoven.

Practical illustrations of the lectures on musical form are given in the class-room.

A 5 *Practical Music.*

Professor SANFORD, Assistant Professors JEPSON, TROOSTWYK, and KNIGHT.

Instruction is given in Piano-, Organ-, and Violin-playing to a limited number of students. Fees range from $50.00 to $150.00 for the college year.

Each student of the piano-forte receives individual instruction, under the supervision of Professor Sanford, who will in person instruct a limited number of advanced students in the higher branches of the art, particularly in *ensemble* and concert-playing. No student is admitted to a course in practical music who has not been admitted to one of the theoretical courses.

Students of organ-playing receive personal instruction from Professor Jepson and of violin-playing from Mr. Troostwyk.

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B 2 *Counterpoint.* 2 hrs.

Mr. DAVID STANLEY SMITH.

A thorough knowledge of Harmony is required of students in this course.

The work is the harmonizing and supplying melodious additional voices to choral and other melodies used as *Canti Firmi*.

The different orders of Counterpoint in two, three, and four voices; also double counterpoint, and more or less free imitative writing.

Students in this course are encouraged to try the simpler forms of free composition.

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*C 1 *Strict Composition.* 2 hrs.

Professor PARKER.

The more severe kinds of composition form the basis of work in this course.

Harmony in Five and more parts; Threefold and Fourfold Counterpoint; Four- and Three-part Fugues for voices or for instruments; Canons of various kinds, with or without accompaniment of free voices; Free treatment of different kinds of thematic material.

*C2 *Instrumentation* [after A 1 and B 2]. 2 hrs.

Professor PARKER.

This course is open only to students who have done the work of courses A 1 and B 2, and it is strongly recommended that course C 1 also should precede it.

Lectures are given on the nature, compass, tone-color, and other characteristics of all the instruments of the modern orchestra, with illustrations of their use by great composers.

Exercises in the practical orchestration of short pieces from the works of classic and modern composers, in analyzing, reading, and playing from orchestral scores, beginning with Haydn and Mozart Symphonies, and embracing modern works of various kinds.

*C 3 *Free Composition* [after A 1, B 2 and C 2]. 2 hrs.

Professor PARKER.

This course is open only to students who have done the work of courses A 1, B 2, and C 2, and who have shown unmistakable talent for original composition. Several of the smaller forms of free instrumental and vocal music are composed by the students, and studies are made for larger compositions, which are finished in case the thematic material offered is of sufficient merit.

At the close of the year the student is required to produce an extended work, probably in sonata form.

## XXII. PHYSICAL EDUCATION

A 1 *Physiology and Gymnastics.* 2 hrs.

Dr. SEAVER and Dr. ANDERSON.

This course is designed for those who intend to teach gymnastics or to direct departments of physical education in institutions of learning, and for those who wish to take a more complete course of training for self-improvement than is offered in Freshman year. The work comes under two general branches as follows:

(1) *Physiology.*

This work consists of one recitation or lecture a week with Dr. Seaver, during the year. The first term is devoted to elementary physiology. The second term is devoted to human

physiology; special attention being given to a study of the circulation, respiration, digestion, and excretion. The hygienic importance of these topics is carefully studied. The third term is given to a study of sanitary science. Collateral reading will be required during the third term.

(2) *Principles and Practice of Gymnastics.*

Under this head will be discussed by Dr. Anderson (*a*) the scientific basis of physical training; (*b*) history of gymnastics and growth of the various systems; (*c*) means employed, such as apparatus and appliances; (*d*) physical examinations and measurements; (*e*) pedagogy of gymnastics.

Members of the class will be called upon to arrange exercises for other classes, to classify movements for overcoming common physical defects, and to do practice work in teaching gymnastics.

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The following statements are added to explain the general aim and scope of the instruction in some of the leading subjects of study.

LATIN—By the close of Freshman year, it is intended that the student shall have gained clear conceptions of the genius of the language and its relations to other ancient and to modern tongues, a good knowledge of the characteristics of Latin literature and the essential facts of Roman history, and some appreciation of the position of Rome in the history of civilization. That subsequent reading of the language may be more easy and more exact, due attention is given in the early part of the course to forms, constructions, and idioms. From term to term the study of the literature is made more prominent, and particular texts are treated as means for the study of the public and private life of the Romans. Instruction is given mainly by recitations, but such work is supplemented by occasional lectures by the instructors and by conferences on papers presented by the pupils. In connection with the minute study of the authors, considerable time is given to oral and written reading at sight, and to composition in Latin.

For Seniors, Juniors, and Sophomores who desire to continue their Latin studies, parallel courses are offered by different instructors, with different ends in view and by different methods. The characteristic of a course may be, *e*, *g*., literature, or history, or philology, or antiquities,

or the speaking and writing of Latin; and the methods of preparation and the class-room treatment vary accordingly. Topics suggested by the nature of the courses, or by individual tastes and intentions, are assigned to students, and papers thus prepared are discussed before the class. Lectures and the rapid reading of large amounts of texts are more frequent than in the prescribed courses. The connections of Latin with English are emphasized, and written translations are from time to time required and criticized with reference both to their faithful reproduction of the Latin thought and their idiomatic English. German annotated editions are often used, not only for their intrinsic helpfulness, but also to encourage the practical use of that language. Students who give evidence of unusual capacity and attainments may be admitted to membership of graduate classes.

GREEK—The student who presents Greek in his examination for admission to College may continue the study of Greek during each of the four years of his College course, if he so elect. (See pp. 38–41.) During the first two years, he may read selections from Homer, from Thucydides or Herodotus, dramas of Aeschylus, Sophocles, and Euripides, one or two comedies of Aristophanes, one or more orations of Demosthenes, Isocrates, or Lysias, the Apology and some dialogue of Plato; occasionally, the *Symposium* of Xenophon or selected dialogues of Lucian. These works are selected with a view to making the student familiar with the leading branches of Greek Literature, and the most interesting phases of Greek life and thought. The most important grammatical principles are reviewed in Freshman year; in Sophomore year, grammatical questions are discussed rarely, except as they are necessary for the interpretation and illustration of the author's meaning. In reading the works of the poets, less attention is paid to linguistic and grammatical points than to their literary quality, to the structure of the poems, to poetic words, forms, arrangement of words, rhythm, and constructions; but the growth and development of the language are discussed as well as the development of the literature. In reading the orators and historians, the connection of thought and of events is made prominent. Greek prose composition is practiced so far only as to aid the student in reading Greek authors, and to quicken his perception of nice distinctions in the order and choice of words and construction.

In the more advanced courses of the Junior and Senior years, the student has the opportunity of reading the works of the lyric poets, other Greek dramas, and other dialogues of Plato, parts of Aristotle (his *Politics*, *Poetics*, and *Ethics*), and the *Idyls* of Theocritus; as well as of studying Greek inscriptions, and of doing more critical work on the Homeric poems than is suited to the first College year; also of

practising more advanced Greek composition, and of learning the elements of the Modern Greek language. The history of Greek philosophy is studied under instructors of the department of Philosophy, and several courses are offered in classical archaeology.

ROMANCE LANGUAGES (FRENCH, ITALIAN, SPANISH)—The student who has passed the admission examination in French may continue the study of that language during each of the four years of his College course, if he so elect; the student who has not passed the admission examination in French may, if he desire, begin the study of French in either Freshman or Sophomore year and pursue it for four or three years; no elementary instruction in the language is given to Juniors or Seniors.

To the student properly equipped, *i. e.*, who has had two years of French in college, or the equivalent, the following Junior and Senior electives are open from which he may choose according to his special wants with the advice of the department: (*a*) linguistic courses conducted in French and combining the study of some literary topic with practice in speaking and writing; (*b*) literary courses, in which the leading writers of one specific period are read and studied.

Barring exceptional cases, the study of Spanish and Italian cannot be begun before the Junior year, but if begun then, it can be continued to the end of the College course.

GERMAN—The student who has passed the admission examination in German may continue the study of German during each of the four years of his college course, if he so elect; the student who has not passed the admission examination in German may, if he desire, begin the study of German in either Freshman or Sophomore year, and pursue it for four or for three years; no elementary instruction in the language is given to Juniors or Seniors.

The courses of work for the successive years may be outlined as follows: During the first year the work consists of German grammar, translation of easy English phrases, sentences, and connected prose into German, and of easy German prose into English. Constant sight-translation is used as a means for developing and strengthening the student's vocabulary and for freeing him from dependence upon the lexicon and from the word-by-word methods which its use encourages. Especial care is devoted to pronunciation. The work of the second year continues and extends that of the first year, taking up the translation of more difficult German prose, both with previous preparation and at sight, the study of word-formation, and the translation of more difficult English prose into German. Throughout the two years the aim in reading German is to cover as much ground as possible—from 500 pages

upwards—in the belief that thereby the student will acquire more command of the language than when a smaller amount is read with rigid attention to grammatical details. It is expected that at the end of the second year the student will have adequate preparation for the use of the language in his work in other branches of study. Those, therefore, who are studying German solely with this end in view may perhaps discontinue class-study at this point: but no student should begin the language unless he expects to devote at least two years to its study.

For the remaining years the courses vary from year to year; but opportunity is given for the critical study of works of leading authors, and for the study of periods in the history of German literature. Advanced courses are offered also in earlier German literature and in the historical development of the language.

German readings are given by the instructors, outside of the regular College work, and a course in advanced composition is given, in which German alone is spoken. German is constantly read aloud in the class-room, and efforts are made to improve the student's pronunciation and to help him to acquire some facility in expressing his ideas in German. But it is not a leading aim in the instruction in German to enable the student to converse in that language. Training in the ordinary conversational idiom may be had more profitably elsewhere and cannot form any considerable part of the class-room work. The student may acquire the language as a tool for use in other departments of study, and may come in contact with the best works of German literature, studying their form and contents, and the lives and environment of their authors; fluency in conversation must be acquired where the conditions are more fitted to the object which they are to effect.

ENGLISH—The course pursued by those Freshmen who elect English occupies three hours a week, and is concerned with the following works: four representative plays of Shakespeare; selected essays of Carlyle, Ruskin, and Arnold; Tennyson's *Idylls of the King*, and shorter poems; Palgrave's *Golden Treasury of Songs and Lyrics*. The work as a whole has for its object to cultivate in the student the habit of careful, critical reading of the best English literature.

The elementary course in rhetoric aims at a survey of the whole field of prose composition, a general training in fundamental principles and in the habit of expression, and a special training in exposition. The weekly recitations and lectures are auxiliary to the instruction given to each student in conference on frequent essays.

The DeForest, Townsend, TenEyck, Betts, McLaughlin, and Winston Trowbridge Townsend prizes (pp. 150 ff.), are under the superintendence of the Assistant Professor of Rhetoric.

For the present year a prize in poetry, of the value of fifty dollars, is offered to the University by Professor Cook.

The more advanced work in English follows six different, though related, lines. Instruction is offered in the outlines of the history of English literature, with reading of selected authors; in the earlier stages of the language, with reference as well to the reading of the older literature as to linguistic discipline; in rhetoric; in the theory of poetry, involving a consideration of literary criticism in general, and in the theory of the drama; in the evolution of certain literary forms; and in the study of various periods, classes of writers, and individual authors.

The course in the history of English literature is regarded as preparatory to the study of special periods and topics. A text-book is the main reliance for the history up to Spenser; beginning with this poet, specimen works of ten authors are read, and supplementary lectures are delivered.

The course in Old and Middle English is intended to impart the elementary knowledge essential to the reading of pre-Chaucerian authors as well as to the fuller understanding of Chaucer himself, and to give the student a sense of the meaning and value of our earliest literature.

The courses in rhetoric are intended to provide systematic practice and criticism in any prose form, and in the composition of verse.

The course in the theory of poetry is designed to give the student a philosophical conception of the nature of poetry, and the laws of its chief genera, as expounded by leading critics and deducible from the master works of literature. That in the theory of the drama expounds the technique of dramatic art.

The course in literary types seeks to outline and illustrates the chief types recognizable in the higher order of European literature. The course on the English lyric is a study in literary evolution, its origin and development from Skelton to Shelley being considered. That on English comedy treats this form from its beginning to Sheridan. That on medieval allegory is devoted to three important texts especially, one each in Italian, French and English. That on verse-narrative covers all its forms from Chaucer to William Morris. That on the English ballad shows the influence of its popular form on modern poetry.

The chief period of English literature, with reference to which instruction is at present provided, is the nineteenth century. The chief classes of writers examined are the dramatists from Shakespeare to the present, prose authors, and the leading writers of New England between 1830 and 1870. The chief individual authors studied are

Chaucer, Shakespeare (in two different courses), Milton (and his contemporaries), Johnson (and his circle).

The larger number of the courses in English are intended to be disciplinary as well as instructive; in other words, they have in view the development of insight and power no less than the imparting of information.

MATHEMATICS.—During the first year Solid Geometry, Plane Trigonometry and either Algebra or the elements of Analytical Geometry are studied. The Analytical Geometry is a necessary preparation for the Sophomore Calculus.

During the second year course B 1 Calculus, or B 2 Spherical Geometry and Trigonometry with Applications may be taken.

The remaining mathematical courses described in the preceding pages fall into four groups, viz: Pure Mathematics; Mathematical Physics; Astronomy; Engineering Sciences. The courses in Advanced Calculus and in Analytical Geometry form the foundation of each of these groups and should be taken in Junior year. The students in Pure Mathematics and Mathematical Physics should also take the courses in Projective Geometry, Higher Algebra, Mechanics and Mathematical Physics, Function Theory and Differential Equations, sometime in their Junior and Senior years; those in Astronomy the courses in Practical Astronomy, Analytical and Celestial Mechanics; and those in Engineering Studies the courses in Descriptive Geometry and Machine Drawing, Machine Designing, and in Mechanics.

Students desiring to take honors in mathematics, or intending to pursue graduate studies in any one of the above lines, should follow this scheme rather closely.

As modern mathematical literature is largely in French and German, students should acquire as soon as possible a good reading knowledge of these languages.

It is desirable even for students of pure mathematics that they should acquire the elements of descriptive geometry, and facility in the use of drawing instruments.

The seminary rooms and mathematical laboratory at 90 High Street are open to students taking the more advanced courses.

PHYSICS—The instruction in Physics is begun in Sophomore year, with a course, extending through the year, of three exercises weekly. This is a general course, conducted by recitations, liberally illustrated by means of apparatus and experiments, and by occasional lectures. The object is to give a broad general view of the subject, to make the student familiar with the fundamental principles of the science, to enable him to understand something of the methods of experiment and

reasoning by which physical laws have been established, and to give him an insight into the processes by which accuracy is attained in physical work, and the degree to which it may be carried. The work serves also as the introduction to, and foundation for, the more advanced courses offered in Junior and Senior years, in which the student may pursue lines of work in general and theoretical Physics of a higher grade, or may take up practical work in the Sloane Physical Laboratory, beginning with the course in Junior year, and continuing the work, of a more advanced character, during Senior year, as is described in the list of elective courses.

CHEMISTRY—This study is elective. A course in experimental inorganic chemistry is open to Freshmen, Sophomores, Juniors or Seniors. Students who wish to master during the College course those branches of chemistry which are required for admission to medical or technical schools, or which are anticipatory of work otherwise required in such schools, should take this course as early as possible. It is a prerequisite to the other courses in chemistry and to the courses in biology and mineralogy, and is desirable for those who propose to study other courses in science. Instruction is given in this course by lectures and in the laboratory; and frequent examinations, written or practical, serve to review and emphasize essential facts and principles as well as to test the progress of the student.

Courses in qualitative analysis and in the preparation and study of the compounds of organic chemistry are open to students familiar with the subject matter of the first course. A course dealing with typical gravimetric and volumetric methods of quantitative analysis may follow or accompany the course in qualitative analysis, and courses in the study of compounds of the rare elements and in typical methods for the preparation of inorganic salts are open by permission to students sufficiently advanced. Beside the courses already mentioned, the plan of which is to teach facts and principles by experimentation and induction, two lecture courses, one of which deals with the relations of the compounds of carbon and the other with general chemical theory, are open to properly qualified undergraduates.

GEOLOGY—The instruction in this department is planned to meet the wants of two classes of students: (1) those who wish a knowledge of the structure and history of the earth as a means of general culture, and (2) those who intend to make geology or some related science their chief life work. To this end an introductory course in General Geology is offered in which are discussed the elementary facts of earth structure, the geological processes by which the earth has attained its

present form and surface features, and the evolution of living beings. These subjects are abundantly illustrated by laboratory and field practice. The courses offered in Mineralogy, Physical Geography and Meteorology are designed to enlarge the scope of study of the elementary earth sciences. Students who have completed one year of study and wish to continue may select work in one of the several branches of geology and will be encouraged to carry on special investigations. The lines of study now open to undergraduates are Mineralogy preparatory to mining, Structural Geology, Physiography, and Historical Geology in its many phases, including palaeontology. The collection of minerals, rocks, maps, and other illustrative material is ample for all branches of the subject, and the New Haven region is well suited to give practical field experience.

MENTAL AND MORAL SCIENCE, AND PHILOSOPHY—The courses in this department of study begin in Sophomore year, and may be continued until graduation. They cover the following subjects: Psychology, Logic and Epistemology, Ethics, Aesthetics, History of Philosophy, Metaphysics, Philosophy of Religion, Pedagogics, and Philosophical Criticism.

PSYCHOLOGY—The introductory course in this subject is a general course in which all the different phases of the science of mental life and its conditions are briefly treated. This course covers and unifies the various phases of psychology which are later distinguished as experimental psychology and psychological theory. Although this elementary course is taught with constant use of a text-book, upon which recitations are exacted, considerable time from the first is taken by the instructor in oral instruction, critical or supplementary of the text and in demonstration of experiments. Attention is thus called to the most recent advances in experimental and physiological psychology, to the educational bearings of the subjects treated and to the psychological bases of ethics, logic and other philosophical disciplines and related anthropological sciences. In the advanced courses, the student prepared by the introductory study of the subject as a whole, may take up the methods of laboratory investigation, the general comparative study of the writings of leading psychologists, and certain other subjects of a more special character such as genetic psychology and the applications of psychology to education. These advanced courses are supplemented by a thorough course in the metaphysics of mind. The most important of the older and newer works on psychology are placed in the University Reference Library for the use of students, who are urged to do side reading in connection with the class-room work. For the advanced experimental work and for the

demonstrations in the introductory course a well-equipped psychological laboratory is at hand. All the typical forms of experimental investigation are illustrated, and for the benefit of advanced students undertaking research work, the laboratory is equipped with a workshop and employs a mechanic so that new apparatus can be constructed as required.

LOGIC AND EPISTEMOLOGY—The instruction in Logic aims at a thorough knowledge of the principles of deductive and inductive reasoning. In Deductive Logic special attention is given to an analysis of the syllogism, to a study of its functions and logical value, and to the study of fallacies. In Inductive Logic the problems, grounds, and principles of induction are discussed. Attention is given to familiarizing the students with the principles and methods of scientific investigation. The work in Logic includes an examination of recent logical theories. The courses in Epistemology undertake a critical examination of scepticism and agnosticism, and the study of the nature, limits, and grounds for the validity of our knowledge of reality.

MORAL SCIENCE, as a study, is intimately connected with the instruction in Psychology and Philosophy, as its foundations are discovered in the constitution of the human soul, and its method and fundamental relations are justified and enforced by those principles which are essential to all scientific thinking. In the department of Moral Science and of Practical Ethics, a somewhat thorough elementary course is offered as an essential element of a thorough education and an important condition for practical usefulness. This general course is supplemented by special classes in scientific and practical Ethics, and particularly in the history and criticism of ethical theories.

AESTHETICS—Instruction in this branch of study seeks to review the history of thought on the subject of the beautiful; to give a philosophical account of the foundations upon which the arts rest; and to study scientific art-theory in its relation to general philosophical system.

HISTORY OF PHILOSOPHY—In the study of the History of Greek Philosophy the principal emphasis is laid upon Plato and Aristotle, and upon the post-Aristotelian Schools, as illustrating the permanent and most interesting problems of Philosophy.

The course in Modern Philosophy consists of expository and critical lectures, and the cursory reading of philosophical masterpieces from Descartes to Hegel. Special emphasis is laid upon the philosophy of Kant. It is a constant aim to trace the development of modern speculative thought so as to throw light upon the principal questions in debate among present writers in philosophy.

PHILOSOPHY OF RELIGION—In a course of lectures, accompanied by required readings, the principal facts and conceptions which belong to the religious experience and development of man are made the subjects of discussion and reflective study. In another course of lectures some of these topics are treated more from the historical and comparative standpoints.

METAPHYSICS—The principal metaphysical conceptions—such as space, time, causation, number, substance, quality, relation, etc.—are thoroughly discussed in an advanced elective course; and the attempt made to unite them in a harmonious view of the physical world and of human life. This involves a careful study of such themes as Matter and Spirit, Change and Development, the Absolute and the Relative, and God and the World.

PEDAGOGICS—Thorough instruction is given in Systematic Pedagogy, Experimental Pedagogy, and in the History of Education and Educational Theory. These subjects are considered in both their theoretical and practical aspects, the aim being to prepare students for the practical work of teaching.

PHILOSOPHICAL CRITICISM—In addition to the study of Philosophy as connected with the problems of rational Psychology, and as illustrated and enforced by the history of the development of Philosophy, the works of one or more of the leading authors are read and discussed, with such students as take the elective courses opened for this purpose. In this way the more general studies in Metaphysics and Ethics are supplemented by special information regarding selected subjects and writers.

The SOCIAL SCIENCES AND LAW—An elementary course in Economics is provided, which treats not merely of the general principles of the science, but some of the most important practical applications in finance and legislation. Text-books are supplemented by lectures and discussions. Those who have taken Elementary Economics have an opportunity in Junior or Senior years to become acquainted with the history of the science and the controversies now going on in it, and to study more thoroughly special topics. In the courses in the Science of Society and allied subjects they are also offered an opportunity to become acquainted with the new sciences whose investigations are so important for the whole field of social science.

The course in Law in Senior year is intended for prospective students of law as a profession, and covers such topics as American law, agency, wills, evidence, contracts, international law, etc.

MUSIC—The department aims to provide adequate instruction for those who intend to become professional musicians, either teachers or composers, and to offer a complete course of study to such as intend to devote themselves to musical criticism and the literature of music. In all the courses a knowledge of piano-playing is required, though in a less degree if the student plays well some other musical instrument.

## SPECIAL HONORS

Special Honors are conferred at the end of Senior year in the following groups of studies:

Classical Languages and Literature.
Semitic Languages and Literature.
Romance Languages and Literature.
Germanic Languages and Literature.
English Language and Literature.
Mathematics.
Physics and Chemistry.
Natural Sciences.
Philosophy.
History.
Social Sciences.
Music.

A candidate for special honors must pursue with distinction courses aggregating nine hours of work of B and C grades, of which at least three hours must be of C grade, and present a meritorious thesis embodying the results of individual research. The thesis must be typewritten and must be presented before June 1st.

Courses in Sanskrit may be counted as a part of the work in the Classical Languages.

Courses in Old and Middle English may be counted as part of the work in the Germanic Languages.

In Music, honors will be given for distinguished work on the completion of all the courses offered to undergraduates.

A candidate for honors must consult the instructor under whose direction he proposes to write his thesis before December 1st of Senior year.

A candidate's whole work in any group, though it may be more than the minimum requirement for an honor, will be reckoned as a competition for the honor.

## LECTURE COURSES

In addition to the Courses regularly offered in connection with the Curriculum, there is a large number of LECTURE COURSES, given under the auspices of various University departments and organizations. Among these are: the Lyman Beecher Lectures, the Dodge Lectures on the Responsibilities of Citizenship, the Sheffield Course, the Dwight Hall Lectures, the Isaac H. Bromley Lectures on Journalism, Literature and Public Affairs, the Art School Lectures, the Phi Beta Kappa Lectures, and the Yale Public Lectures (thirty in number), in coöperation with the New Haven University Extension Centre. Most of the above are open to students of the College without charge. For the Yale Public Lectures, however, the cost of a season ticket is $3. The Chamber Concerts and Symphony Concerts also are given every year.

## TERMS AND VACATIONS

The PUBLIC COMMENCEMENT is held on the last Wednesday in June. The first term begins thirteen weeks from the day after Commencement-day and continues twelve weeks; the second term begins on the Wednesday after the first Thursday in January and continues until Commencement-day, with a Spring Recess—of fifteen days—including Easter. See Calendar, p. 4.

## PUBLIC WORSHIP

PRAYERS are attended in the Battell Chapel, with reading of the Scriptures and singing, every week-day at 8.10 A. M., at which service the attendance of the students is required.

PUBLIC WORSHIP is held in the Chapel on Sundays, at which all Academical students are required to attend,

except such as have special permission to attend the worship of the denominations to which their parents belong. Such permission can be obtained on presenting to the Dean or Division Officer a written request therefor from the parent or guardian.

APPOINTMENTS for the Sunday services are made by a Joint Committee of the Corporation and Faculty, who endeavor to select as preachers those who, by their daily contact with active life and their knowledge of young men, are especially fitted to reach and influence a College audience. The preachers for the present Academic year, as far as arranged at the date of publication of this pamphlet, are:

Sept. 26. President Hadley.
Oct. 4. Rev. Amory H. Bradford, D.D., Montclair, N. J.
11. Rev. Donald Sage Mackay, D.D., New York City.
18. Mr. Robert E. Speer, M.A., New York City.
25. Rev. William DeWitt Hyde, D.D., LL.D., Brunswick, Me.
Nov. 1. Rev. Lyman Abbott, D.D., New York City.
8. Rev. Edward Everett Hale, D.D., Boston, Mass.
15. Mr. John R. Mott, M.A., New York City.
22. Rev. Wilford L. Robbins, D.D., New York City.
29. Rev. Joseph H. Twichell, M.A., Hartford, Conn.
Dec. 6. Rev. Professor Henry Van Dyke, D.D., LL.D., Princeton, N. J.
13. Rev. William S. Rainsford, D.D., New York City.
Jan. 17. Rev. George A. Gordon, D.D., Boston, Mass.
24. Rev. Endicott Peabody, M.A., Groton, Mass.
31. Rev. Charles E. Jefferson, D.D., New York City.
Feb. 7. Rev. James Gore King McClure, D.D., Lake Forest, Ill.
14. Rev. George Hodges, D.D., Cambridge, Mass.
21. Rev. William R. Richards, D.D., New York City.
28. Rev. William O. McDowell, Ph.D., D.D., New York City.
Mch. 13. Rt. Rev. Henry Codman Potter, D.D., LL.D., New York City.
Apr. 10. Rev. Leighton Parks, D.D., Boston, Mass.
24. Rev. Charles Cuthbert Hall, D.D., New York City.
May 8. Rt. Rev. William Lawrence, D.D., Boston, Mass.
15. Rev. William H. P. Faunce, D.D., LL.D., Providence, R. I.
29. Rev. Frank Gunsaulus, D.D., Chicago, Ill.
June 12. Rev. John H. Vincent, S.T.D., LL.D.
26. President Hadley.

The YALE YOUNG MEN'S CHRISTIAN ASSOCIATION, with a membership of over one thousand, has its headquarters in Dwight Hall, which was erected in 1886 through the generosity of Mr. Elbert B. Monroe, of Southport, Connecticut. This is a stone building situated on the College square, and is admirably adapted to be the center of the social religious life of the University; it contains a convenient reading-room, a carefully selected library, a large hall for general religious services, and separate rooms for the prayer meetings of the various classes.

The DWIGHT HALL LECTURE COURSE, the devotional meetings, the classes for Bible study, and the mission work carried on by the students, have come to be prominent features of Yale life.

## LIBRARIES AND READING ROOMS

The UNIVERSITY LIBRARY, containing about 280,000 volumes, 100,000 pamphlets, and 1,000 volumes of manuscripts, is open every week-day to all the students for consultation and for the drawing of books; in a separate part of the building is the Linonian and Brothers Library, a collection of about 25,000 volumes in general literature specially selected for the use of the undergraduate students. The total number of volumes in the Libraries of the University, exclusive of manuscripts and pamphlets, is about 370,000.

The COLLEGE READING-ROOM, containing the principal newspapers and periodicals, American and foreign, is open to the students every day and evening without charge. There are also a reading-room and a select library (for reference only) in Dwight Hall.

## THE GYMNASIUM

The GYMNASIUM is designed to provide all students of the University, not only with opportunities for general exercise, but also with the means of caring for the body in accordance with the laws of hygiene. It also provides

for specific training in view of any physical defects that may be remedied by rational superintendence.

The Department is under the supervision of two Associate Directors, both of whom are trained physicians.

The gymnastic training is designed to be progressive from year to year. The members of the different classes may take exercises in the various forms of gymnastics under the instruction of the Directors, and any student may enter the classes in general gymnastics. An instructor is always present in the main exercise-hall to direct individual or class work. All students requiring such care are assigned exercises suited to their special needs.

A thorough physical examination and measurement is offered each student yearly, and a record of the results is kept as a basis of advice as to exercise and regimen. An examination of these records shows that the standard of health of the average student improves during his college course.

For the welfare of the students the following rule has been passed by the Corporation :

> Required that every man who presents himself for exercise in the gymnasium, or who desires to use its privileges, should first submit to a physical examination by one of the Directors ; or, in default of such an examination, should bring from his physician a written certificate (the form to be furnished by the Director) that he is physically sound ; or a written certificate from his parent or guardian that he wishes the student excused from the examination and that he himself will take the responsibility of exercise without a previous examination.

An elective course is provided for the Senior and Junior classes as set forth in the prospectus of elective studies ; p. 116, XXII, A 1. This provides training in hygiene and gymnastics for those who intend to teach or to supervise the work of physical training in educational institutions. Dr. Seaver gives a course of lectures on elementary physiology and sanitary science. Dr. Anderson gives lectures and lessons in the theory and practice of gymnastics.

The new Gymnasium, erected by graduates for the use of the University, was opened in 1892. The arrangement of the building is in general as follows: the location is on the north side of Elm street, and the front is 138 feet, while the depth is 86 feet. The entrance is by an archway at the east end, which leads through the building to a large lot in the rear that affords room for outdoor exercises, such as throwing the hammer, putting the shot, hurdling, pole-vaulting, jumping, etc.

The basement is reached by an entrance from the lot, and contains an engine-room, a laundry, a bath room with tubs, each provided with a shower and douche, toilet rooms, a room with two bowling alleys, and a room for baseball teams.

The first floor contains the spacious entrance-hall, or vestibule, a dressing room for athletes, with bath and toilet rooms for their special use, a complete equipment of lockers, bath, a swimming-pool (28 x 50 feet), a Turkish bath, and two rowing-tanks large enough for eight-oar crews.

The second floor is occupied by officers, fencing, wrestling and boxing rooms, and a large dressing-room, with shower-baths and toilet-rooms adjoining. This room now has over one thousand ventilated lockers, with space for a thousand more whenever they may be needed.

The Gymnasium is open from 9.30 in the morning until 8.30 at night. Graduate and undergraduate students are entitled to the use of the tub and Turkish baths upon the payment of a small fee.

## INFIRMARY

The YALE INFIRMARY is situated on Prospect street in a healthy and beautiful part of the city. It was built in 1892 at a cost of about $40,000, raised by subscription among friends of the University. One dollar is charged on the Treasurer's bill for each day that a student remains in the

Infirmary. Mrs. Anderson, a competent matron, is in residence, but the choice of physician rests with the patient.

## DINING HALL

The YALE DINING HALL is situated in University Hall, and furnishes board at cost (approximating $4.25 per week). The Hall contains seats for 1,008, and is open to the officers and students of the University. The bills for board of students in the College and in the Sheffield Scientific School will be charged on the regular term bills. Meals will be furnished to visiting graduates, and to friends of the regular boarders, at the rate of 25c. for luncheon or breakfast, and 30c. for dinner. Application for board should be made at the office of the Superintendent, Mr. F. T. Deshon, at the east end of University Hall.

## EXPENSES

The BILLS FOR TUITION and other charges are made out and delivered to the students, or *(request to that effect being made)* mailed to the parent or guardian, three times a year, viz: at the beginning of each term or half-term, at which time they are payable at the Bursar's Office, No. 1 Phelps Hall. If not paid before the end of the month following the month in which they are issued, the student will not be permitted to attend recitations until his bill shall have been paid, and in the allotment of college rooms will not be permitted to retain or choose a room. Drafts on New York, Boston, and Philadelphia are received at par.

The annual charges for tuition are one hundred and fifty-five dollars. Of this amount fifty-five dollars are payable at the beginning of the first term, and fifty dollars at the beginning, and again at the middle, of the second term. An additional charge of eighteen dollars is made in the last bill of the Senior year to cover expenses of graduation.

ABSENCE ON LEAVE—A student who is absent from College on account of sickness, or for any other cause, and retains his place in his class, pays full tuition during such absence; such payment is required before the student can be admitted to examination.

BOARD is obtained at prices varying from three and a half to eight dollars a week. The average price is under five dollars.

ROOMS—There are in the College buildings over four hundred and seventy rooms occupied by students, at prices varying, according to location, from one dollar to ten dollars per week, payable each term or half-term in advance. These rooms are not furnished, and the rates charged do not include heat (except in Welch Hall) or light.

Farnam Hall (built in 1869–70) is named in commemoration of Henry Farnam, Esq., of New Haven, who bore the chief part of the expense of its erection; Durfee Hall (built in 1870–71) commemorates in like manner the generosity of Bradford M. C. Durfee, Esq., of Fall River, Mass.; Lawrance Hall (built in 1885–86) owes its name to a gift for this purpose from Mrs. Francis C. Lawrance, of New York City, in memory of her son, Thomas Garner Lawrance, of the class of 1884, who died during his Senior year in College; Welch Hall, completed in 1892, is the gift of Pierce N. Welch, Esq. (Yale College 1862), of New Haven, in memory of his father, the Hon. Harmanus M. Welch, of this city, who died in 1889; Vanderbilt Hall, first occupied in 1894, is the gift of Mr. and Mrs. Cornelius Vanderbilt, of New York City, in memory of their son, William Henry Vanderbilt, a member of the class of 1893, who died in 1892; White Hall, completed in 1894, was erected at the expense of Andrew J. White, M.D. (Yale 1846), of New York City; and Fayerweather Hall, completed in 1901, is named in honor of Mr. Daniel B. Fayerweather of New York City.

Students living out of College are not allowed to room in any hotel or apartment-house or in any building in

which a family does not reside, except by special permission of the Faculty.

A few rooms in each building are reserved in May, for members of the Freshman class of the year following, and are assigned to applicants in order of application. Correspondence about College rooms should be addressed to the Dean.

Members of the Junior, Sophomore, and Freshman classes, occupying any of the College rooms, may retain the same rooms for another academic year, by making application in writing to the locating officer, on or before Saturday, May 14, 1904. Rooms not reserved will then be offered to the classes in order: choices will be allotted to the Junior class on Monday, May 23, to the Sophomore class on Friday, May 27, and to the Freshman class on Monday June 6.

PRICES PER WEEK OF ROOMS IN COLLEGE FOR 1903–1904

When a room is occupied by two persons, each occupant will be charged with one-half the price named in this schedule. The prices given for Welch Hall include steam-heat.

$0.75.—70 South Middle.

$1.00.—84 South Middle; 359, 360, 361, 362, 363, 364, 365, 366 White; 417, 418, 419, 420 Berkeley.

$1.25.—81, 82, 94, 95 South Middle; 409, 410, 411, 412, 416, 421 Berkeley.

$1.50.—73, 74, 77, 78, 86, 87, 91 South Middle; 401, 402, 403, 404, 408, 413 Berkeley.

$1.75.—80, 83, 93, 96 South Middle; 400, 405 Berkeley.

$2.00.—71, 72, 75, 76, 79, 85, 88, 89, 90, 92 South Middle; 133, 137, 141, 150, 155, 160, 167, 171, 175 Farnam; 385, 386, 387, 388, 393, 394, 395, 396 Berkeley.

$2.25.—384, 389, 392, 397 Berkeley.

$2.50.—142, 143, 158, 159, 161, 162, 176, 177 Farnam; 243, 244, 250, 251, 260, 261, 270, 271, 275, 276, 281, 282 Lawrance; 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598 Pierson.

$3.00.—130, 131, 134, 135, 138, 139, 140, 144, 145, 146, 147, 148, 149, 151, 152, 153, 154, 156, 157, 164, 165, 168, 169, 172, 173, 174 Farnam; 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582 Pierson.

$3.50.—208, 215, 216, 223, 224, 231, 232, 239 Durfee; 415, 422 Berkeley; 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566 Pierson.

$4.00.—129, 132, 136, 163, 166, 170 Farnam; 407, 414 Berkeley; 451, 452, 453, 454 Fayerweather.

$4.50.—14, 18 Vanderbilt; 248, 249, 258, 259, 268, 269, 279, 280 Lawrance; 399, 406 Berkeley.

$5.00.—22, 26, 40, 56 Vanderbilt; 202, 209, 210, 217, 218, 225, 226, 233 Durfee; 241, 242, 246, 247, 252, 253, 256, 257, 262, 263, 266, 267, 272, 273, 277, 278 Lawrance; 296, 311, 312, 327 Welch; 341, 342, 379, 380, 381, 382 White; 433, 434, 467, 468, 469, 470 Fayerweather; 585, 586, 599, 600 Pierson.

$5.50.—44 Vanderbilt; 206, 213, 214, 221, 222, 229, 230, 237 Durfee; 295, 298 Welch; 338, 339, 355, 356, 357, 358, 375, 376, 377, 378 White; 383, 390, 391, 398 Berkeley; 430, 431, 447, 448, 449, 450, 463, 464, 465, 466 Fayerweather.

$6.00.—48, 52 Vanderbilt; 204, 211, 212, 219, 220, 227, 228, 235 Durfee; 245, 254, 255, 264, 265, 274 Lawrance; 284, 297, 299, 300, 301, 302, 313, 314, 315, 328, 329, 330 Welch; 351, 352, 353, 354 White; 443, 444, 445, 446 Fayerweather; 521, 522, 535, 536, 569, 570, 583, 584 Pierson.

$6.25.—283, 286 Welch.

$6.50.—332, 333, 335, 336, 367, 368, 369, 370, 371, 372, 373, 374 White; 424, 425, 427, 428, 455, 456, 457, 458, 459, 460, 461, 462 Fayerweather.

$7.00.—2, 3, 13, 15, 41, 43, 45, 58, 60 Vanderbilt; 201, 203, 205, 234, 236, 238 Durfee; 285, 288, 292, 303, 304, 307, 308, 316, 317, 318, 319, 323 Welch; 340, 343, 344, 345, 346, 347, 348, 349, 350 White; 432, 435, 436, 437, 438, 439, 440, 441, 442 Fayerweather; 537, 538, 551, 552, 553, 554, 567, 568 Pierson.

$7.50.—287, 291, 294 Welch.

$7.75.—290 Welch.

$8.00.—1, 11, 12, 16, 25, 27, 29, 36, 42, 55, 57, 59, 67, 69 Vanderbilt; 289, 293, 305, 306, 309, 310, 322, 326 Welch; 337 White; 429 Fayerweather.

$8.50.—5, 8, 17, 19, 21, 23, 47, 49, 51, 53, 63, 66 Vanderbilt; 320, 324 Welch.

$9.00.—10, 28, 34, 39, 54, 68 Vanderbilt; 321, 325 Welch; 331 White; 423 Fayerweather.

$10.00.—4, 6, 7, 9, 20, 24, 30, 32, 35, 37, 38, 46, 50, 61, 62, 64, 65 Vanderbilt; 207, 240 Durfee; 334 White; 426 Fayerweather.

$12.00.—31, 33 Vanderbilt.

The subjoined table gives near estimates of the ordinary annual expenses in College, omitting clothing, vacation charges, and sundries.

| | Lowest | General Average | Very Liberal |
|---|---|---|---|
| Treasurer's bill, tuition . . . . | $155 | $155 | $155 |
| Rent and care of half-room in College, | 20 | 100 | 140 |
| Board, 36 weeks, . . . . | 125 | 175 | 250 |
| Furniture, average of half-room for 4 years, | 10 | 25 | 40 |
| Fuel (steam-heat) and light, for half-room, | 15 | 20 | 35 |
| Washing, . . . . . | 15 | 25 | 40 |
| Text-books and stationery, . . . | 10 | 25 | 40 |
| Subscriptions (to Societies, Sports, Periodicals, etc.), | | 20 | 100 |
| Total . . . . . | $350 | $545 | $800 |

## BUREAU OF SELF-HELP

The work of this Bureau is to obtain employment for students of the University and for graduates, and the assignment of beneficiary aid to students in the Academical Department. All students who desire employment in order to assist in paying their way may leave their names at this Bureau, and all persons who have work of any sort which students can do are requested to leave their orders here. Students who are about to graduate, and graduate students who desire positions especially as teachers, should apply to this Bureau, where also applications for teachers may be made. Also those students in the Academical Department who need abatement of tuition should make application for it to this Bureau before October fifteenth in each year of the College course.

## BENEFICIARY AID

More than thirty thousand dollars is annually applied by the Corporation for the relief of students who need pecuniary aid. Of this sum about twenty thousand dollars is derived from permanent charitable funds, while the remainder is taken from the annual income of the College. This assistance is given in the form of Tuition

Scholarships, as aid to the students intending to enter the ministry, and in Special Beneficiary Scholarships. Needy students are also employed as monitors, etc., and obtain text-books gratuitously from a loan library.

### TUITION SCHOLARSHIPS

Tuition Scholarships are granted to approved undergraduates in the Academical Department upon the basis of need and of excellence in scholarship as follows: For the first term of Freshman year an abatement of tuition will be made at the rate of one hundred and fifteen dollars a year, from the full annual charge of one hundred and fifty-five dollars, to such students as shall be judged to be in need of such aid to enable them to pursue their college course. The fact and the degree of the need in each case will be determined by the information given by the applicant in filling out a form of application (which may be obtained from the Bureau of Self-Help) in which particular questions are asked as to the financial condition of himself and his family. So far as is practicable this information will be regarded as confidential.

After the first term of Freshman year no abatement will be allowed to any applicant whose grade in scholarship, in the preceding term or half-term, has fallen below 2.50 on the scale of 0-4.00. From all the applicants whose grade in the preceding term or half-term is 2.50 or above, a certain number of scholarships at the rate of one hundred and fifty-five dollars a year will be assigned, at the beginning of each term or half-term, to those who are found to be at once highest in scholarship and most in need (Group A); and an equal number of scholarships at the rate of seventy-five dollars a year to those judged to be lowest in scholarship or least in need (Group C); and to all the rest, scholarships at the rate of one hundred and fifteen dollars a year (Group B).

These abatements will be made proportionally from each one of the term-bills when due. Assistance will be

withdrawn from students whose expenditures are not in accordance with the claim of limited means, or who are irregular in attendance, or who shall be found guilty of behavior reflecting upon their moral character or subversive of college discipline.

Those needing this aid should make application to the Bureau of Self-Help, in each year of the College course. A person applying for the first time is required to present evidence in writing that he is worthy to receive assistance, when he will receive a form of application which must be filled out and left at the Bureau of Self-Help on or before October fifteenth.

Tuition Scholarships are derived from the income of funds as follows :

The MORGAN FUND, bequeathed by the late Henry T. Morgan, of New York City, has been set apart by the Corporation, with the provision that the income shall be divided into scholarships (at present thirty-seven in number, yielding one hundred and fifteen dollars each), to be assigned by the Faculty for the benefit of indigent and deserving students.

The MARETT FUND, amounting to over one hundred and fifty-two thousand dollars, which was established by the will of Philip Marett, of New Haven, in 1869, and was received in 1889–97, has been appropriated for beneficiary scholarships, in aid of needy and deserving students.

The CHRISTMAN FUND, amounting to over twenty-two thousand dollars, bequeathed by Joseph A. Christman (Yale College 1857), of New York City, who died in 1888, is devoted to the support of poor and meritorious students.

The HARMER FOUNDATION OF SCHOLARSHIPS, the proceeds of a bequest in 1854 from Thomas Harmer Johns (Yale College 1818), of Canandaigua, N. Y., comprises five scholarships, each yielding at least one hundred dollars a year, to be given to deserving students of small means.

The LYON SCHOLARSHIP FUND, of forty-four hundred dollars, given in 1868–72 by Morris W. Lyon (Yale College

1846), of New York City, benefits four scholars, selected for their worth and need by the founder or the Faculty.

There is also a FUND, the income of which is used for scholarships, which has been constituted from repayments made to the treasury by former students who have received aid during the College course.

There are thirty-one other Scholarship Funds, most of them of one thousand dollars, the income of which may be given to such students as shall be selected by the founders or the Faculty. In this number are included Scholarships named in commemoration of William Allen, Charles Atwater, Mills Bordwell, William S. Charnley, Thomas H. and Luther Fuller, Sereno Gaylord, John C. Holley, Charles L. Ives, Elisha C. Jones, William A. Macy, John S. Mitchell, John M. Raymond, John Spaulding, and James M. Whiton.

## AID TO STUDENTS INTENDING TO ENTER THE CHRISTIAN MINISTRY

Those desiring this aid should apply to the Bureau of Self-Help on or before October fifteenth in each year of the college course. A person applying for the first time must present proper testimonials. The applicant is required to sign an agreement (attached to the application for a Tuition Scholarship) that, at the end of his college course he will give his promissory note to the Bursar of Yale College for an amount equal to all the sums he shall have received on this special account (by which is meant all in excess of what he would have received had he held only a Tuition Scholarship) payable five years from the date of his graduation, if at that time he has not entered upon the work of the Christian ministry.

This aid is generally sufficient to meet the entire charge for tuition. It is derived from the income of funds, as follows:

The ELLSWORTH FUND, now about ninety-six thousand dollars, was received in 1858 from the estate of the Hon.

Henry L. Ellsworth (Yale College 1810). The Corporation have directed that two-thirds of the income of this fund be annually applied to the aid of students in the Academical Department, in the words of the will "needing such assistance and having the settled and avowed purpose of entering the Gospel ministry."

The LANGDON FUND, of four thousand dollars, was bequeathed in 1835 by Solomon Langdon of Farmington, Connecticut, to be applied for the instruction of undergraduate students having "the purpose of devoting their lives to the Gospel ministry."

Also devoted to this purpose are the GRATUITY FUND of over fourteen thousand dollars, and funds named in commemoration of William E. Dodge, Rev. Joel Hawes, D.D., and Rev. Peter Parker, M.D.

## SPECIAL BENEFICIARY SCHOLARSHIPS

Certain beneficiary scholarship funds for one reason or another have been kept distinct from the general Tuition Scholarship funds. They are as follows:

The LUCIUS HOTCHKISS FUND, of ten thousand dollars, the bequest of Lucius Hotchkiss, of New Haven, in 1881, comprises four scholarships, the income of which is given to indigent and deserving students.

The LEAVENWORTH SCHOLARSHIP FUND, now amounting to over seventeen thousand dollars, was established in 1882 by the Hon. Elias W. Leavenworth (Yale College 1824), of Syracuse, N. Y., with the primary object of defraying in part the expenses of the education of students of good character and promise, bearing the surname of Leavenworth.

The HOLMES SCHOLARSHIPS, one in each class in College, founded by Samuel Holmes, of Montclair, New Jersey, are filled upon the nomination of the Board of Agents of the Silas Bronson Library of Waterbury by students from the towns of Waterbury, Wolcott, Prospect, and Middlebury, Connecticut, who receive each the income of one thousand dollars *per annum*.

The income of the TEELE FUND, of one thousand dollars, given by the Rev. Albert K. Teele, D.D., of the class of 1842, is distributed by the President of the University, at his discretion, among needy and deserving undergraduates.

The income of the JAMES MARSHALL SCHOLARSHIP FUND, of two thousand dollars, is to be used to pay the tuition annually of some worthy student struggling for an education.

### MONITORSHIPS, ETC.

There are also opportunities for students in need of aid to render service to the College as monitors, by singing in the Chapel choir, etc.; in this way about fifteen hundred dollars is disbursed annually. Applications for monitorships should be made to the Registrar.

In general it may be said that the other means of self-help at the command of the students are sufficient to enable many of those who have spare time to provide for the larger part of their college expenses.

### LOAN LIBRARY

By the liberality of William L. Andrews, Esq., of New York City, and as a memorial of his son, Loring W. Andrews, of the class of 1883, a well furnished library has been established, containing text-books and works of reference, to be loaned gratuitously to those students who have need to avoid the expense of purchasing books. Permission to use this library is obtained from the Bureau of Self-Help.

### GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

The DOUGLAS FELLOWSHIP, with an income of six hundred dollars a year, was founded in 1873, by Mrs. Samuel Miller of New Haven, and named in memory of her brothers, the Rev. Sutherland Douglas (Y. C. 1821) and George H. Douglas (Y. C. 1828). The incumbent, who must be a

recent graduate of this Department, pursuing non-professional studies in New Haven, is elected annually, but no person shall hold the fellowship for more than three years.

The SOLDIERS' MEMORIAL FELLOWSHIP, with an annual income of six hundred dollars, was founded in 1875 by Mrs. Theodosia D. Wheeler, of New Haven, in honor of the alumni who fell in battle as Union soldiers, in the war of 1861–1865, and in special remembrance of William Wheeler, of the class of 1855. The incumbent must be, at the time of his election, a graduate of this Department of not more than three years' standing. He shall pursue non-professional studies, and may hold the fellowship for a period not exceeding five years. In selecting the incumbent, the President and Professors are to give preference to one who has shown special proficiency in Greek; and for the further prosecution of Greek study, the Fellow may spend a part or the whole of the time of his incumbency in Athens, in connection with the American School of Classical Studies, instead of in New Haven.

The SILLIMAN FELLOWSHIP, founded in memory of Professor Benjamin Silliman, Professor of Chemistry, Mineralogy, and Geology in Yale College from 1802 until his death in 1864, has an annual income of six hundred dollars, and is awarded to a graduate of this Department who has given evidence of proficiency and promise in some branch of physical science. The incumbent is elected annually, but no person shall hold the fellowship for more than three years.

The JOHN SLOANE FELLOWSHIP in Physics, established in 1889 by the gift of ten thousand dollars from John Sloane, Esq., of New York City, is awarded annually by the Faculty to a graduate of this Department who has shown marked proficiency in the study of Physics, and gives promise of success in the prosecution and application thereof. The incumbent shall reside in New Haven for at least thirty-six weeks in each academic year, pursuing a course of study in Physics and the related branches

of science, and acting as an assistant in the Sloane Physical Laboratory; he may be re-elected, but shall not hold the fellowship for more than three consecutive years.

The SCOTT HURTT FELLOWSHIP, with a foundation of twelve thousand dollars, was established in June, 1893, by Mrs. Sarah I. Hurtt, of New York City, in memory of her son, Burgess Scott Hurtt, of the class of 1878, Yale College. The incumbent must be a graduate of the Academical Department, of not more than four years' standing at the time of his first appointment, and may hold the fellowship for three years by annual re-election. In addition to a good moral character, the person appointed must have maintained a satisfactory standing in scholarship and must purpose to pursue a scholastic, professional, or scientific career, in which he gives promise of success. He shall, if required by the President and Professors, reside in New Haven for at least one year of his incumbency, during thirty-six weeks of the year, pursuing his studies there; but with this exception may have the privilege of prosecuting his studies at any foreign University, or at the American School of Classical Studies in Athens, or at the American School of Classical Studies in Rome.

The BERKELEY SCHOLARSHIP, founded in 1733 by the Rev. George Berkeley, Dean of Derry and afterwards Bishop of Cloyne, Ireland, and yielding about seventy dollars a year, is awarded to the student in each Senior class who passes the best examination (which must be a creditable one) in the Greek Testament (Pauline Epistles), the first book of Thucydides, the first six books of Homer's *Iliad*, Cicero's *Tusculan Questions*, Tacitus (except the *Annals*), and Horace; provided he remain in New Haven as a graduate, one, two, or three years.

The CLARK SCHOLARSHIP, being the income of a fund of two thousand dollars, given for this purpose by Mr. Sheldon Clark, of Oxford, Connecticut, is awarded in each Senior class to the applicant who has attained the highest rank in the studies of the course; provided he remain in

New Haven for one year or two years immediately after graduation, pursuing a course of study (not professional) under the direction of the Faculty.

The BRISTED SCHOLARSHIP, founded in 1848 by Charles Astor Bristed (Yale College 1839), of New York City, and yielding over one hundred dollars a year, is awarded, whenever there is a vacancy, to the student in the Sophomore or Junior class who passes the best examination in the classics and mathematics. The successful candidate receives the annuity (forfeiting one-third in case of non-residence) until the end of the third year after graduation. This scholarship was awarded in 1903.

The FOOTE SCHOLARSHIPS, founded in 1873 by a bequest of Harry W. Foote (Yale College 1866), of New Haven, and yielding five hundred dollars a year, are awarded annually to graduates of this Department, selected by the Corporation, who remain in New Haven for one or more years pursuing studies in the graduate courses of the Department of Philosophy and the Arts.

The LARNED SCHOLARSHIPS, three in number, each having a fund of seven thousand dollars, were founded in 1877 by the bequest of Mrs. Irene Larned, of New Haven, and were augmented in 1888 by the bequest of Mrs. Urania B. Humphrey, of Norfolk, Connecticut. One scholarship is awarded in each Senior class; the incumbent must reside in New Haven, pursuing a course of advanced study under the direction of the Faculty.

The ELLEN BATTELL ELDRIDGE SCHOLARSHIPS, two in number, each having the income of a fund of twelve thousand dollars, were established in 1894 by a bequest from Mrs. Azariah Eldridge, of Yarmouth, Massachusetts. The incumbents, who shall be graduates of this Department, selected by the President and Professors, must reside in New Haven, pursuing such a course of study as they may select and the Faculty approve. No scholar shall continue on the foundation for more than three years.

The MACY SCHOLARSHIP, being the income of a fund of ten thousand dollars, derived from a bequest of the Rev. William A. Macy (Yale College 1844), of Shanghai, China, who died in 1859, is awarded, whenever there may be a vacancy, to a recent graduate of distinguished scholarship, who may hold it for a term of three years. He shall reside in New Haven, pursuing a course of non-professional study, and shall at the close of each College year present a meritorious thesis in evidence of his work during the previous year.

The CUYLER FELLOWSHIP was established in 1900 by Thomas DeWitt Cuyler, Esq., of the class of 1874, Cornelius C. Cuyler, Esq., and Miss Eleanor de Graff Cuyler, in memory of their brother Theodore Cuyler, of the class of 1882. The income of a fund of ten thousand dollars is to be awarded each year to a graduate of the Academical Department who is pursuing a course of study under the direction of the Faculty.

The JOHN ADDISON PORTER MEMORIAL FELLOWSHIP was established in 1901, by a gift of $10,000 from Mrs. Josephine S. Porter, in memory of her husband, Professor John Addison Porter, of the class of 1842, and of her son, John Addison Porter, of the class of 1878. The incumbent shall be a graduate of the Academical Department or the Sheffield Scientific School of Yale University, selected for distinguished excellence and promise in the department of English. The fellowship may be held for three years, and the incumbent is allowed to pursue studies under the direction of the Professors in the Department of Philosophy and the Arts, "in the English language and literature and cognate subjects," either at New Haven or elsewhere.

## UNDERGRADUATE SCHOLARSHIPS

The DEFOREST SCHOLARSHIPS were established in 1823 by David C. DeForest, of New Haven. By the terms of

this gift, the fund for which became available in 1852, one thousand dollars are annually appropriated for "the education and support at Yale College, or the University which may grow out of it, of the male descendants of Mehitable Lockwood," the mother of the donor. In default of such descendants the same sum shall be applied to the education of others of the family of DeForest.

The WOOLSEY SCHOLARSHIPS, each having the income of a fund of one thousand dollars, the gift of President Woolsey, in 1846–48, are awarded in successive years, one to the student in each Freshman class who passes the best examination in Latin Composition (excellence in which is essential to success), in the Greek of the year, and in the solution of problems in the mathematical subjects required previous to Easter of Freshman year. The successful candidate receives the annuity during the four years of his college course, provided he maintains a good standing in character and scholarship, and in Sophomore or Junior year makes himself acquainted with the Differential and Integral Calculus. The student who stands second at this examination receives for one year the income of the HURLBUT SCHOLARSHIP FUND, of one thousand dollars (established by Henry A. Hurlbut of New York City, in 1858–59); and the student who stands third, the income for one year of the THIRD FRESHMAN SCHOLARSHIP FUND, of the same amount, given by Charles M. Runk, Esq., of Allentown, Pennsylvania, in 1864.

The W. W. DEFOREST SCHOLARSHIP, being the income of a fund of two thousand dollars, bequeathed in 1867 by William Wheeler DeForest, of New York City, is awarded to a student in each Senior class who has attained distinction in the study of French while in college, provided he pursue for the year after graduation a further course of study in the modern languages, especially French, Spanish, Portuguese, or Italian, under the direction of the Faculty.

The SCOTT HURTT SCHOLARSHIP was established in 1889 in memory of Burgess Scott Hurtt, of the class of 1878, Yale College, by his classmates and friends. The income of a fund of five thousand dollars is assigned in June of each year to a member of the Sophomore class, who is selected by the Faculty on the ground of approved scholarship; one half of the income will be paid to the incumbent during his Junior year, and one half during his Senior year, provided he continues to be in need of this assistance.

The THOMAS GLASBY WATERMAN FUND, of forty thousand dollars, was received in 1890 from the estate of Thomas G. Waterman (Yale College 1886). The income is given to not more than three scholars, of manly character and limited means, who have distinguished themselves in their studies and give promise of achieving distinction in the line of work which they have chosen; the incumbents are elected annually by the Faculty from the Senior or Junior class, or from graduates of the Department of not more than two years' standing.

The ALFRED BARNES PALMER SCHOLARSHIP FUND, of five thousand dollars, was given in 1892, by the Rev. Charles Ray Palmer, D.D., in memory of his son, Alfred Barnes Palmer, of the class of 1892, Yale College. The annual income is paid, during his college course, to a student in avowed need of beneficiary aid, of unexceptionable character, and of high rank in scholarship.

The DANIEL LORD, JUNIOR, MEMORIAL FUND, of five thousand dollars, was established in 1894, by Daniel Lord, Esq., of New York City, in memory of his son, Daniel Lord, Junior, of the class of 1892. The annual income is given to a deserving and needy undergraduate student in this Department—preferably a member of the Senior class—who shall be selected by the Faculty.

The LEARNED SCHOLARSHIPS, two in number, each having the income of a fund of two thousand dollars, established in 1895 by the Hon. William L. Learned, LL.D., of the class of 1841, Yale College, are awarded whenever

there is a vacancy at the close of Freshman year to students who have been markedly successful in their studies. The incumbents receive the income of the fund through the last three years of the college course.

The JOHN J. COX SCHOLARSHIP, established in 1898 by the gift of two thousand dollars from Mrs. John J. Cox, of Peekskill, N. Y., in memory of her son, John J. Cox, of the class of 1891, is awarded yearly to some needy and worthy student of high character selected by the Faculty.

The ROBERT CALLENDER SCHOLARSHIP was established in 1901 by a gift of six thousand dollars from W. R Callender of the class of 1894 and J. A. Callender of the class of 1902, in memory of their brother, Robert Callender, of the class of 1898. The income is to be awarded annually by the Faculty to some needy undergraduate student in the College.

The JOHN BENNETTO SCHOLARSHIP FUND of five thousand dollars was established in 1902 by the class of 1887, in memory of their classmate, John Bennetto. One half of the income is to be given each year to a student in Yale College who shall have two more years of study before graduation, and who may hold the scholarship during two years. The recipient must be a person of sound and strong character, marked ability, and high standing in the college world and in the estimation of his classmates. In judging of a candidate's qualifications, very high scholarship shall not be regarded as indispensable. Should any recipient of the income of this Fund return to the College the sum received, or any part thereof, the sum shall be added to the Fund.

The MAHLON LONG SCHOLARSHIP, established in 1902 by Rev. George Wells Ely, of Columbia, Penn., and yielding four hundred dollars a year, is to be open to undergraduate members either of the Academical or Scientific Departments, and is intended to be given yearly during the entire course to the same student, though the appointment or reappointment will be made each year.

## PREMIUMS

The DeForest Prize, founded in 1823 by David C. DeForest, of New Haven, and consisting of a gold medal, of the value of one hundred dollars, is awarded "to that scholar of the Senior class who shall write and pronounce an English Oration in the best manner," the President and Professors being judges.

Townsend Premiums, five in number, of twelve dollars each, founded in 1843 by the gift of Isaac H. Townsend (Yale College 1822), of New Haven, are awarded in each Senior class for the best specimens of English Composition; all compositions receiving premiums must be read in public.

The following are the subjects for the year 1904:

1. The Military Idea in Germany.
2. Leo XIII.
3. The Decline of Bible-reading.
4. Alcibiades.
5. The Scientific Significance of the Eruptions of Mt. Pelée.
6. The American High School.
7. The Modern Poet as Prophet.
8. Italian Immigrants in the United States.
9. The Free Frisians.
10. Church and State in France.
11. The Celtic Revival.
12. Jonathan Edwards.
13. Recent Social Developments in Italy.
14. Powell's Exploration of the Colorado.
15. The Return of the Drama to Poetry.
16. Carlyle and Newman.

Within the limits of reasonable implication these subjects may be divided or adapted. Essays in competition are due at 15 White Hall, on Wednesday, June 1, at noon. They should be written for effective oral delivery in about fifteen minutes. Attached to each essay should be a sealed envelope containing the writer's name.

The DeForest Mathematical Prizes were established by the late Dr. John DeForest (Yale College 1826), and were augmented by his son, the late E. L. DeForest (Yale

College 1854), of Watertown, Connecticut. A first prize of one hundred dollars, and three second prizes of fifty dollars each are offered to the Senior class for worthy solutions of problems in pure and applied Mathematics.

WINTHROP PRIZES, the income of a fund of five thousand dollars given in 1871 by Buchanan Winthrop, Esq. (Yale College 1862), of New York City, are annually offered to the Junior class "for the most thorough acquaintance with the Greek and Latin poets," particular attention being paid to elegance of scholarship and appreciation of the spirit of the poetry, as shown at an examination in May. The first prize is two hundred dollars, and the second prize is the balance of the income for the year.

The subjects for examination for the class of 1904 are as follows: Greek, the *Olympian Odes* of Pindar, the *Prometheus Bound* of Aeschylus, the *Oedipus Tyrannus* of Sophocles, the *Bacchantes* of Euripides. Latin, the *Aeneid* of Vergil.

The HENRY JAMES TENEYCK PRIZES, the income of a fund of twenty-six hundred dollars, established in 1888 by the Kingsley Trust Association in memory of Henry James TenEyck (Yale College 1879), are awarded to the successful competitors at the Junior Exhibition, in the second term of each year. The following are the subjects for the year 1904:

1. 1849 in California.
2. Marquette.
3. Macedonia.
4. College Athletics in England and in the United States.
5. Oklahoma.
6. Plato's Socrates.
7. The Popularity of Whittier.
8. Present Dangers in Organized Labor.
9. American Engineering in the East.
10. Cooper's Indians.
11. The Erie Canal.
12. Ten Years' Progress in Electricity.
13. A Problem in Municipal Reform.
14. The Hartford Convention.
15. The Cliff-Dwellers.

Within the limits of reasonable implication these subjects may be divided or adapted. Essays in competition are due at 15 White Hall on Wednesday, February 24, at noon. They should be written for effective oral delivery in about twelve minutes. Attached to each essay should be a sealed envelope containing the writer's name.

The C. WYLLYS BETTS PRIZE, established in 1890 by the Phelps Association, being the income of a fund of one thousand dollars given by L. F. H. Betts, Esq. (Yale College 1891), in memory of his uncle, the late C. Wyllys Betts, Esq., of New York City, a graduate of Yale College in the class of 1867, is offered to the Sophomore class for excellence in English Composition. The prize is awarded annually to that member of the class who shall have exhibited the most meritorious work in the required compositions of the year and in a special essay on a prescribed subject.

The subject prescribed for the Class of 1906 is *The Prose of Washington Irving*. Competitors may make their own selections for discussion; but the following pieces are recommended:

The Alhambra.
Granada.
The Sketch Book.
The Knickerbocker History.
Tales of a Traveller.

Essays in competition are due at 15 White Hall on Saturday, May 14, 1904, at noon.

The MCLAUGHLIN MEMORIAL FUND, consisting of one thousand dollars, founded in 1893 as a memorial of Edward Tompkins McLaughlin (Yale College 1883), late Professor of Rhetoric and Belles Lettres, is devoted to the encouragement of English Composition in the Freshman class. From the income of this fund a first and second prize, in books, are offered during the current year.

The WINSTON TROWBRIDGE TOWNSEND PRIZES, given by Judge William K. Townsend, in memory of his son, a

member of the class of 1901, are annually awarded for excellence in English Composition in the Freshman class.

The McLAUGHLIN PRIZES and the WINSTON TROWBRIDGE TOWNSEND PRIZES will be awarded in 1904 for the best essays on any of the following topics:

Jonathan Swift and English Politics.
Don Quixote.
James Fenimore Cooper.

Essays in competition are due at 15 White Hall on Saturday, April 9, at noon. Attached to each essay should be a sealed envelope containing the writer's name.

The JOHN HUBBARD CURTIS PRIZE, being the income of a fund of two thousand five hundred dollars given in 1900 by Mrs. Virginia H. Curtis, in memory of her son, John Hubbard Curtis, of the class of 1887, is to be awarded each year to that student in the Academical Department who shows the highest excellence in literary or rhetorical work upon assigned subjects. For the year 1903–1904 competitors may select any one of the following topics:

I. A dialogue on the model of Landor's Imaginary Conversations.
   1. Queen Elizabeth and the Earl of Essex.
   2. Dr. Donne and William Drummond of Hawthornden.
   3. The Earl of Strafford and Lord Falkland.
   4. Bishop Berkeley and Sir Robert Walpole.
   5. Addison and Boileau.
   6. Samuel Johnson and Thomas Gray.
   7. Coleridge and Washington Allston.
   8. R. L. Stevenson and Henry James.

II. A sequel to Love's Labour's Lost: a three-act comedy, retaining approximately the same set of characters.

III. A free paraphrase of the ninth novel of the fifth day of the Decameron in the verse and manner of Dryden's Fables.

IV. A conclusion to the Squire's Tale in about three hundred lines of correct Chaucerian English.

V. An imaginary speech against secession by a Unionist member of the Virginia Convention of 1861.

Pieces must be handed to Professor Beers on or before April 30, 1904.

COLLEGE PREMIUMS are given each year in the Sophomore class for Declamation.

The THACHER MEMORIAL FUND, of three thousand dollars, founded in 1892, by gifts from the class of 1842, and named in honor of their former instructor, Professor Thomas A. Thacher, is devoted to the encouragement of the practice of extemporaneous debate. One hundred and fifty dollars of the income will be offered in prizes for this object during the current year.

The JOHN ADDISON PORTER PRIZE IN AMERICAN HISTORY, founded by Amy Betts Porter in memory of her husband, the late John Addison Porter, of the class of 1878, and consisting of the income of two thousand dollars, will be awarded for the year 1903–1904 for the best original Essay by a member of the Senior or Junior class of the Academical Department on one of the following subjects:

I. Diplomatic relations between France, the United States, and the Confederacy.
II. The secession of Virginia.
III. The genesis, purpose, and results of the Lewis and Clark Expedition.
IV. The political career of Stephen A. Douglas.
V. Invention of the cotton gin, its adoption, efficiency, and effects, from 1793 to 1820.
VI. The genesis, development, and adoption of negro suffrage as an essential part of Reconstruction.

The essays should be prefixed by a classified bibliography of the authorities consulted, and precise references in foot-notes to these authorities should be given for all important statements made in the text.

Each essay must be typewritten, signed by a fictitious name, and handed in under cover accompanied by a sealed envelope containing the assumed name and the real name of the writer. The essays must be deposited with the Secretary of the University not later than February 25, 1904.

SCOTT PRIZES for excellence in German and in French are offered to the Junior class; these are of the value of thirty dollars each, and are given in books. The prizes were founded by the bequest of Henry W. Scott (Yale College 1863), of Philadelphia, who died in 1871.

In the year 1903–1904, and thereafter until further notice, the Scott Prize in German will be awarded to that member of the Junior class who shall pass the best examination (to be held during the latter half of the second term) in the following dramas: Lessing's *Nathan der Weise;* Goethe's *Egmont, Iphigenie auf Tauris;* Schiller's *Wallenstein-Trilogie;* H. von Kleist's *Käthchen von Heilbronn, Prinz Friedrich von Homburg.* Students may at any time apply to Professor Palmer for information in detail.

In the year 1903–1904, the Scott Prize in French will be awarded to that member of the Junior class who shall pass the best examination (to be held during the latter half of the second term) in the following dramas: Corneille's *Horace, Le Cid;* Racine's *Andromaque, Athalie;* Molière's *Le Misanthrope, Tartuffe;* Beaumarchais' *Le Barbier de Séville;* V. Hugo's *Ruy Blas.* Students may at any time apply to Professor Sanderson for information in detail.

The LUCIUS F. ROBINSON LATIN PRIZES, from the income of a fund of five thousand dollars given in 1887 by the daughters of the late Lucius F. Robinson (Yale College 1843), of Hartford, will be awarded the present year to students showing special proficiency in Latin :—one series of prizes (of fifty, thirty, and twenty dollars, respectively) being open to members of the Senior and Junior classes who have taken two hours per week in Latin electives; and a second series, of the same amounts, to members of the Sophomore class who have elected Latin.

The awards will be based on the regular class-room work in Latin for the entire year, and on a special written examination, to be held early in June, 1903, on translation at sight, and on *Sallust.*

BERKELEY PREMIUMS, in books, for excellence in Latin Composition are offered to the Freshman class near the end of each College year, from the surplus income of the Berkeley Scholarship Fund.

The BENJAMIN F. BARGE MATHEMATICAL PRIZES, amounting to two hundred dollars, are given annually from funds provided by Benjamin F. Barge, Esq., of the class of 1857. The prizes are awarded in both Freshman and Sophomore classes and consist in each class of a first prize of fifty dollars, a second of thirty dollars, and a third of twenty dollars. The prizes are awarded, in general, for the solution of original problems.

The HUGH CHAMBERLAIN GREEK PRIZE, being the income of one thousand dollars given for this purpose, in 1886, by the Hon. Daniel H. Chamberlain (Yale College 1862), is awarded annually to that member of the Freshman class who has passed the best examination in the Greek required for admission to College. Candidates for this prize will be required to pass the whole examination in Greek in June of the year of their entrance into College, even though they may have been accepted already in some or all of the Greek subjects in a previous year.

The SAMUEL HENRY GALPIN LATIN PRIZE, being the income of one thousand dollars given for this purpose, in 1901, by Samuel Arthur Galpin, LL.B., in memory of his father, Samuel Henry Galpin, of the class of 1835, is to be awarded annually to that member of the Freshman class who passes the best examination in the Latin required for admission to the College. Candidates for this prize must pass the whole examination in Latin in June of the year of their entrance into College, even though they may have passed on some or all of the Latin subjects in a previous year.

## UNIVERSITY PRIZES

The JOHN A. PORTER PRIZE, of the value of two hundred and fifty dollars, established by the Kingsley Trust Asso-

ciation in 1872, is offered for the best English Essay on a prescribed subject. Any person who has been pursuing a regular course for a degree in any Department during the whole of the current College year, may compete for this prize. The award will be announced on Commencement Day. If none of the competing essays is of sufficient merit, the prize will not be awarded.

The subjects for Essays in 1904 are as follows:

The Three World Empires.
The Influence of Christian Missions on Pagan Civilizations.
An Estimate of the Talents and Influence of Jonathan Edwards.
Nationalism in Modern Politics.
The Origin and Significance of Populism; its Relation to Democracy and Socialism and to the Present State of American Institutions.
The Application of the Sherman Act to "Organized labor."
The Principle of the Joint Agreement.
The Progress made through the Hague Conference of 1900 towards a European Code of International Family Law.
The latest Aspects of Ritualism in the English Church.
The Present Outlook for the Drama in Europe.

Essays for the John A. Porter Prize should be plainly marked on the outside, "John A. Porter University Essay for 1904," and should be mailed addressed to the John A. Porter Prize Essay Committee, Drawer 175, New Haven, or left at the office of the Yale Alumni Weekly. Each essay must be typewritten and must be signed by an assumed name and accompanied by the author's real name in a sealed envelope. This envelope must also contain an assignment of copyright, forms for which can be secured at the office of the Yale Alumni Weekly. The essays are due on or before April 30, 1904.

The DANIEL C. EATON GRADUATE SCHOLARSHIP IN BOTANY is endowed with the income of a fund of two thousand dollars, given by Mrs. Eaton in 1897 to found a Graduate Scholarship in Botany in commemoration of her husband, the late Professor Daniel C. Eaton. This scholarship, in the Graduate Department, will be open for

competition to members of the Senior classes in the Academical and Scientific Departments, on conditions to be prescribed by the Governing Board of the Sheffield Scientific School.

The BENNETT PRIZE, being the income of a fund of one thousand dollars, given in 1893 by James Gordon Bennett, Esq., of New York City, is awarded annually on Commencement Day to that undergraduate member of the Senior class in either the Academical Department or the Sheffield Scientific School, who shall have pursued courses in Political Science and English Literature, and shall have prepared the best essay, in English prose, upon some subject of contemporaneous interest in the domestic or foreign policy of the United States government, selected by the Faculty.

The COBDEN CLUB SILVER MEDAL is awarded annually to that undergraduate of either the Academical Department or the Sheffield Scientific School who shows the greatest proficiency in the elements of Political Economy.

The ALBERT STANBURROUGH COOK PRIZE IN POETRY, of the value of fifty dollars, is offered by Professor Cook for the best unpublished poem. Competition is open to students of the University in all departments. If none of the competing poems is of sufficient merit, the prize will not be awarded. Before receiving the prize, the winner must print the successful poem in a manner acceptable to the donor. The poems, each of which should be signed by an assumed name, and accompanied by a sealed envelope containing the writer's full name, will be due on April 1, and may be handed in at the Chittenden Library.

The JACOB COOPER PRIZE IN GREEK PHILOSOPHY, established in 1900 by the gift of five hundred dollars from Professor Albert S. Cook, is awarded in any year by the departments of Greek and Philosophy to such student of the University, being a person of high attainments and ability, as shall pass the best examination in the *Metaphysics* and *Organon* of Aristotle, and shall submit the best thesis

upon some topic drawn from one of these works and announced publicly at a convenient time in advance.

The GEORGE WASHINGTON EGLESTON HISTORICAL PRIZE, the income of one thousand dollars, founded by George Washington Egleston, Esq., of Cardisley, Herefordshire, England, will be awarded to any student of the University who shall during the ensuing year, by research, discover any new fact or facts relating to American History; or shall from existing data bring to bear any information, or criticism, sufficiently notable to be useful from a literary point of view.

## DEGREES

The degree of BACHELOR OF ARTS is conferred by the Corporation on those persons who have completed the course of academical exercises, as appointed by law, and have been approved on examination at the end of the course as candidates for the same. Candidates are required to pay their dues to the Treasurer as early as the Saturday before Commencement.

# APPENDIX

# ACADEMICAL DEPARTMENT
## (YALE COLLEGE)

## SENIOR CLASS

| | | |
|---|---|---|
| John Day Ackley | *New Milford, Conn.* | 299 York st. |
| Charles Edward Adams | *Toledo, O.* | 34 V. |
| George Webster Adams | *Utica, N. Y.* | 29 V. |
| Frederick Charles Aldinger, B.A. Drake University 1898 | *Corona, Cal.* | 409 Orange st. |
| Arthur Williams Allen | *Hartford, Conn.* | 25 V. |
| Christopher Magee Anderson | *Pittsburg, Pa.* | 36 V. |
| George Williams Anderson | *Delhi, N. Y.* | 356 WH. |
| John Phelps Taylor Armstrong | *New London, Conn.* | 346 WH. |
| Lemuel Hastings Arnold, Jr. | *New York City* | 32 V. |
| Louis Horace Arnold | *Willimantic, Conn.* | 45 V. |
| William Norbourn Arterburn | *St. Matthew's, Ky.* | 354 WH. |
| Arthur Shinkle Baker, B.A. Lafayette College 1903 | *New Haven, Conn.* | 83 Grove st. |
| Fred Chambers Baldwin | *Haihu, Maui, H. I.* | 2 V. |
| Seth Weaver Baldwin | *Naugatuck, Conn.* | 355 WH. |
| Joseph Austen Bancroft, B.A. Acadia University 1903 | *Barton, N. S.* | 47 Lake pl. |
| Harold Johnson Barbour | *Hartford, Conn.* | 41 V. |
| Will Tilden Barker | *Farmington, N. H.* | 410 B. |
| Clarence Alfred Barnes | *Mansfield, Mass.* | 355 WH. |
| Timothy Francis Barry | *New Haven, Conn.* | 226 Washington av. |
| Samuel Colcord Bartlett | *New London, Conn.* | 375 WH. |
| Thomas Hopper Beardsley | *Utica, N. Y.* | 28 V. |
| Gerald Edwin Beebe | *Portland, Oregon* | 54 V. |
| Ralph Chapman Benedict | *North Abington, Mass.* | 77 S. M. |
| Stephen Alexander Bennett, B.A. Talladega College 1900 | *Birmingham, Ala.* | 666 W. D. |
| Charles Edward Beyer | *New Haven, Conn.* | New Haven Hospital |
| Otis Munro Bigelow, Jr. | *Baldwinsville, N. Y.* | 252 L. |
| Seth Daniels Bingham, Jr. | *Naugatuck, Conn.* | 355 WH. |
| Walter DeWitt Boggs | *Brooklyn, N. Y.* | 16 V. |
| David Boies | *Scranton, Pa.* | 55 V. |
| Shelby Williams Bonnie | *Louisville, Ky.* | 35 V. |
| William Bower Boulton, Jr. | *Lawrence, L. I., N. Y.* | 64 V. |
| James Cox Brady | *Albany, N. Y.* | 32 V. |
| William Walter Brainard | *New York City* | 374 WH. |

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|---|---|---|
| William Arthur Brenner, B.A. Western College 1901 | *Canton, S. D.* | 73 S. M. |
| James Henry Brewster, Jr. | *Hartford, Conn.* | 67 V. |
| John Shaw Broeksmit, B.A. Coe College 1901 | *Cedar Rapids, Iowa* | 449 FW. |
| Fayette Brown, Jr. | *Cleveland, O.* | 12 V. |
| Garrett Author Brownback | *Linfield, Pa.* | 45 V |
| Charles Howe Buck | *Wethersfield, Conn.* | 382 WH. |
| Harry Frost Burgess | *New Haven, Conn.* | 58 V |
| Benjamin Foster Burns | *Newton Center, Mass.* | 86 S. M. |
| John Frederic Byers | *Allegheny, Pa.* | 65 V. |
| Frank Callahan | *Hartford, Conn.* | 148 F. |
| Roland Heaton Camp | *Waterbury, Conn.* | 26 V |
| Nelson Stuart Campbell | *Providence, R. I.* | 1 V. |
| William Moll Case | *Highland, Kans.* | 378 WH. |
| George Irvin Chadwick | *Port Jervis, N. Y.* | 381 WH. |
| Robert Elmer Chandler | *Madura, So. India* | 370 WH. |
| Carl Mattison Chapin | *Waterbury, Conn.* | 285 W. |
| Russell Cheney | *South Manchester, Conn.* | 3 V. |
| Richard Spencer Childs | *Brooklyn, N. Y.* | 438 FW. |
| Gerald Chittenden | *New York City* | 3 V. |
| George Palmer Christian | *Richmond, Va.* | 69 V. |
| Howard Wadsworth Church | *Meriden, Conn.* | 375 WH. |
| Edwin Clapp | *St. Paul, Minn.* | 39 V. |
| Grant Vincent Clark, B.D. Yale University 1903 | *Princeton, Wisc.* | 619 E. D. |
| Irving Marshall Clark | *Grand Rapids, Mich.* | 46 V. |
| William Darrow Clark | *East Orange, N. J.* | 381 WH. |
| Arthur Morton Clifford | *St. Louis, Mo.* | 302 W. |
| Edward Welch Clucas | *New York City* | 20 V. |
| James Hanson Coburn | *Hartford, Conn.* | 425 FW. |
| Francis Watkinson Cole | *Hartford, Conn.* | 8 V. |
| Frederick Campbell Colston | *Baltimore, Md.* | 44 V. |
| Jean Valjean Cooke, B.A. West Virginia University 1903 | *Morgantown, W. Va.* | 221 D. |
| Belton Allyn Copp, Jr. | *Groton, Conn.* | 41 V. |
| Henry Carlton Courten | *Palmyra, N. Y.* | 451 FW. |
| James Timothy Craffey | *Westboro, Mass.* | 409 B. |
| Winthrop Murray Crane, Jr. | *Dalton, Mass.* | 68 V. |
| Walter Snell Cross | *Fitchburg, Mass.* | 12 V. |
| Joseph Frederick Cullman, Jr. | *New York City* | 28 V. |
| Colman Curtiss | *Buffalo, N. Y.* | 34 V. |
| John Thomson Dallas | *Waterbury, Conn.* | 18 V. |
| Maurice Sherman Damon | *Honolulu, H. I.* | 49 V. |

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|---|---|---|
| Henry Corwith Dangler | *Cleveland, O.* | 12 V. |
| Thomas Latham Davis | *Omaha, Nebr.* | 36 V. |
| Edward LeRoy Dennis | *Norwich, Conn.* | 298 W. |
| Louis Carson Dillman | *Chicago, Ill.* | 46 V. |
| Francis Talmage Dodge | *Morristown, N. J.* | 3 V. |
| Everett Dominick | *New York City* | 54 V. |
| Michael Joseph Donahue | *Norwich, Conn.* | 1079 Chapel st. |
| Howard Drummond | *New York City* | 20 V. |
| Maude Edwin Dunaway, B.A. Hendrix College 1903 | *Conway, Ark.* | 76 S. M. |
| Willard Higley Durham | *Holland Patent, N. Y.* | 259 L. |
| Herbert William Eales | *Bridgeport, Conn.* | 72 S. M. |
| Robert Duncan Eggleston | *Meriden, Conn.* | 56 V. |
| Edward Chappell Ely | *Norwich, Conn.* | 62 V. |
| William Brewster Ely | *New Haven, Conn.* | 62 V. |
| Henry Perkins Erwin | *Johnson City, Tenn.* | 408 B. |
| Charles Alexander Esty | *Framingham, Mass.* | 39 V. |
| Earl Webster Evans | *Montclair, N. J.* | 350 WH. |
| Stevenson Hume Evans | *Buffalo, N. Y.* | 394 B. |
| Joseph Alexander Falvey | *Meriden, Conn.* | 138 F. |
| Dwight Thompson Farnham | *Binghamton, N. Y.* | 43 V. |
| Mark Graff Feder | *Mt. Auburn, Cincinnati, O.* | 423 FW. |
| Gladstone Fessenden | *Stamford, Conn.* | 21 V. |
| Carl Stanley Flanders | *Malden, Mass.* | 4 V. |
| Austin Woodbridge Follett | *Newton, Mass.* | 50 V. |
| Henry Lyman Foote | *New Haven, Conn.* | 9 V. |
| Horatio Ford | *Cleveland, O.* | 343 WH. |
| Denman Fleming Fox | *New Haven, Conn.* | 131 Bradley st. |
| Howard Atwood Franklin | *Penn Yan, N. Y.* | 138 F. |
| Thomas Robert Gaines | *Rushville, Va.* | 339 WH. |
| Joseph William Gallagher | *Northboro, Mass.* | 339 WH. |
| Harold Irving Gardner | *Hartford, Conn.* | 384 B. |
| Henry Wood Gardner | *Providence, R. I.* | 14 V. |
| George Merrill Gelser | *Webster, N. Y.* | 33 V. |
| Franklin Williams Glazier | *So. Glastonbury, Conn.* | 35 V. |
| Harry Glicksman | *Milwaukee, Wisc.* | 443 FW. |
| Morgan Goetchius | *New York City* | 47 V. |
| Philip Goodell | *Montclair, N. J.* | 448 FW. |
| Chauncey Shafter Goodrich | *Santa Clara, Cal.* | 8 V. |
| Alexander Gordon | *Pittsburg, Pa.* | 428 FW. |
| Henry Black Gould, B.A. Amherst College 1903 | *Yonkers, N. Y.* | 1076 Chapel st. |
| Albert Woodruff Gray | *Middletown Springs, Vt.* | 259 L. |
| Douglas Bannan Green | *Pottsville, Pa.* | 66 V. |

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|---|---|---|
| Henry Little Griggs | *Middlebury, Conn.* | 434 FW. |
| William Claiborne Hall | *New York City* | 55 V. |
| Harry Thomas Hamilton | *Groton, Conn.* | 7 V. |
| Alfred Irving Harrington | *Mansfield, O.* | 466 FW. |
| William Dickinson Hart | *Stamford, Conn.* | 371 WH. |
| Everett Smith Hartwell | *Albany, N. Y.* | 428 FW. |
| Arthur Havemeyer | *New York City* | 68 V. |
| Samuel Burdett Hemingway | *New Haven, Conn.* | 429 FW. |
| Raymond Thompson Hill | *North Branford, Conn.* | 392 B. |
| Edward Thurston Hiscox, 2d | *Albany, N. Y.* | 350 WH. |
| Thomas Nicholas Hogan | *Hartford, Conn.* | 114 High st. |
| Joseph Horne Holmes | *Pittsburg, Pa.* | 7 V. |
| James Herron Hopkins, Jr. | *Washington, D. C.* | 9 V. |
| John Ralph Howe | *Norwich, Conn.* | 434 FW. |
| Francis Edwin Howland | *Asheville, N. C.* | 39 V. |
| Julian Burrell Huff | *Greensburg, Pa.* | 29 V. |
| Henry Strong Huntington, Jr. | *Milton, Mass.* | 370 WH. |
| Ernest Hamilton Hurd | *Wilton, Conn.* | 62 Dwight st. |
| Rodney Sheldon Jarvis | *Brooklyn, N. Y.* | 347 WH. |
| Thomas Lewis Jefferson, Jr. | *Louisville, Ky.* | 68 V. |
| Newell Jennings | *Bristol, Conn.* | 370 WH. |
| Percy Hall Jennings | *New York City* | 334 WH. |
| Oliver Livingston Jones, Jr. | *New York City* | 42 V. |
| Charles Sumner Joy | *Springfield, Mass.* | 349 WH. |
| Chauncey Clark Kennedy | *Orange, N. J.* | 41 V. |
| Allen Humphreys Kerr | *Pittsburg, Pa.* | 37 V. |
| Walter Irving King | *Thompsonville, Conn.* | 58 V. |
| William Barri Kirkham | *Springfield, Mass.* | 349 WH. |
| Thomas Henry Kirkland | *Indian Orchard, Mass.* | 419 B. |
| John Caspar Kittle | *Ross, Cal.* | 1 V. |
| James Whitney Knox | *Hartford, Conn.* | 425 FW. |
| Arthur Burton LaCour | *New Orleans, La.* | 11 V. |
| George Thompson Lane | *Troy, N. Y.* | 34 V. |
| Emerson Latting | *New York City* | 51 V. |
| Charles William Lawrance | *Kansas City, Mo.* | 447 FW. |
| Alfred Huntington Lewis | *Syracuse, N. Y.* | 7 V. |
| Bayard Urquhart Livingston, Jr. | *Albany, N. Y.* | 22 V. |
| Robson Longwell | *Dundee, N. Y.* | 270 L. |
| Howell Gurney Lord | *Newark, N. J.* | 8 V. |
| Henry King Love | *Bristol, Pa.* | 343 WH. |
| Allen Perry Lovejoy, Jr. | *Janesville, Wisc.* | 447 FW. |
| Charles Simonton McCain | *Little Rock, Ark.* | 284 W. |
| Alexander Mahon McClean | *Springfield, Mass.* | 49 V. |
| John Smith McFadden, B.A. Acadia University 1903 | *Johnson's Mills, N. B.* | 83 S. M. |

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|---|---|---|
| Francis Dominic McShane | *New Haven, Conn.* | 370 Temple st. |
| Theodore McCurdy Marsh | *East Orange, N. J.* | 446 FW. |
| Lawrence Mason | *Chicago, Ill.* | 5 V. |
| Fred Maurice Maxwell | *Gloversville, N. Y.* | 81 S. M. |
| Harold Marwick Meech | *Middletown, Conn.* | 354 WH. |
| Clarence Whittlesey Mendell | *Boston, Mass.* | 446 FW. |
| George Macy Merriman | *Bristol, Conn.* | 252 L. |
| Harold Grant Metcalf | *Auburn, N. Y.* | 6 V. |
| William Robert Millar | *Plainfield, N. J.* | 19 V. |
| Herbert Chauncey Miller | *Bloomingburgh, N. Y.* | 374 WH. |
| James Ely Miller | *New York City* | 66 V. |
| John Milton Miller | *Bridgeport, Conn.* | 72 S. M. |
| Stewart Lea Mims | *Durham, N. C.* | 260 L. |
| William Ledyard Mitchell | *Cincinnati, O.* | 60 V. |
| George Albert Mohlman | *New York City* | 60 V. |
| Charles Everett Moore | *White Plains, N. Y.* | 407 B. |
| John Alston Moorhead | *Allegheny, Pa.* | 24 V. |
| Guy Burl Morrison, B.A. Union (Nebraska) College 1899 | *Lincoln, Nebr.* | 221 D. |
| George Herbert Mulford | *Kansas City, Mo.* | 429 FW. |
| George Sharp Munson | *Williamsport, Pa.* | 61 V. |
| Hugh Joseph Murphy | *New Haven, Conn.* | 179 Blatchley av. |
| Robert Hayes Nead | *Harrisburg, Pa.* | 450 FW. |
| Arthur Edwin Neergaard | *Concord, N. H.* | 256 L. |
| Paul Sprague Ney | *Hartford, Conn.* | 6 V. |
| George Elwood Nichols | *Saco, Me.* | 168 F. |
| Arthur Nilsen | *New York City* | 438 FW. |
| Martin Lawrence Nolan, B.A. Allegheny College 1900 | *Plantsville, Conn.* | 216 Orange st. |
| Edwin Canfield Northrop | *Waterbury, Conn.* | 11 V. |
| George Harrison O'Brien | *Plattsburgh, N. Y.* | 16 V. |
| Martin Henry O'Brien | *Plattsburgh, N. Y.* | 16 V. |
| Alexander Holley Olmsted | *Lakeville, Conn.* | 15 V. |
| John Olmsted | *Buffalo, N. Y.* | 49 V. |
| Claudius Buchanan Conant Ostrom | *New York City* | 350 WH. |
| Edward Stetson Paine | *Bangor, Me.* | 285 W. |
| George Elton Parks | *Providence, R. I.* | 65 V. |
| Julius Hall Parmelee | *Trebizond, Turkey* | 354 Humphrey st. |
| Maurice Farr Parmelee | *Trebizond, Turkey* | 354 Humphrey st. |
| James Tyler Patterson, Jr. | *Milford, Conn.* | 450 FW. |
| Edwin Daniel Peck | *Gloversville, N. Y.* | 86 S. M. |
| William Law Learned Peltz | *Albany, N. Y.* | 256 L. |
| Herbert Spencer Petry | *Mahwah, N. J.* | 413 B. |
| William Pickens, B.A. Talladega College 1902 | *Little Rock, Ark.* | 359 WH. |

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|---|---|---|
| Frederick Erastus Pierce | *South Britain, Conn.* | 130 F. |
| Edgar LeRoy Pond, Jr. | *Terryville, Conn.* | 130 F. |
| Arthur Kingsley Porter | *Stamford, Conn.* | 255 L. |
| William George Powning | *New Haven, Conn.* | 10 V. |
| David Lindsey Randall | *Athol Centre, Mass.* | 81 S. M. |
| Willard Franklin Fitz Randolph | *Rye, N. Y.* | 270 L. |
| Arthur Bernard Recknagel | *Brooklyn, N. Y.* | 232 D. |
| Lansing Parmelee Reed | *Holyoke, Mass.* | 334 WH. |
| Ogden Mills Reid | *New York City* | 64 V. |
| Harry Wilson Reynolds | *East Haddam, Conn.* | 354 WH. |
| Pierce Butler Reynolds | *Kingston, Pa.* | 43 V. |
| Harry Izard Bacon Rice | *Coles' Ferry, Va.* | 378 WH. |
| Jerome Markham Rice | *Scranton, Pa.* | 33 V. |
| John Markham Riley | *Muskogee, I. T.* | 466 FW. |
| Nelson Studebaker Riley | *South Bend, Ind.* | 10 V. |
| Heaton Ridgeway Robertson | *New Haven, Conn.* | 145 F. |
| Julius Rockwell | *Pittsfield, Mass.* | 449 FW. |
| Barnette Freeman Roe, B.A. Western College 1903 | *Winnebago, Minn.* | 73 S. M. |
| William Field Rundel | *Penfield, N. Y.* | 466 FW. |
| Norman Nienstedt Rupp | *Saginaw, Mich.* | 4 V. |
| John Horace Safford | *Salem, O.* | 382 WH. |
| Arthur Sandiford | *Lawrence, Mass.* | 232 D. |
| Roger Sands | *Pentwater, Mich.* | 50 V. |
| James Fred Sawin | *Winthrop, Mass.* | 333 York st. |
| Lewis Richardson Schenck | *Toledo, O.* | 30 V. |
| Robert Percy Schenck | *Jersey City, N. J.* | 315 W. |
| Herman Henry Schermerhorn | *Sandy Creek, N. Y.* | 60 Whalley av. |
| Laurence Selling | *Portland, Oregon* | 423 FW. |
| Paul Shaffrath | *Waterbury, Conn.* | 168 F. |
| John Jacob Shambaugh, B.A. Western College 1903 | *Booneville, Iowa* | 134 F. |
| Kenneth Rae Shand | *New Brighton, S. I., N. Y.* | 346 WH. |
| Carleton Shaw | *Toledo, O.* | 15 V. |
| Patrick Joseph Sheehan | *Norwich, Conn.* | 409 B. |
| Henry Wood Shelton | *Montclair, N. J.* | 448 FW. |
| Thomas Mallon Shields | *Norwich, Conn.* | 355 WH. |
| Dudley Frank Sicher | *New York City* | 443 FW. |
| Joseph William Sidenberg | *Hastings-on-Hudson, N. Y.* | 48 V. |
| William Strong Slade | *New York City* | 54 V. |
| Brainerd Edwards Smith | *Melrose, Mass.* | 298 W. |
| Charles Eastwick Smith, Jr. | *St. Paul, Minn.* | 371 WH. |
| Lathrop Smith | *Kansas City, Mo.* | 429 FW. |
| Wirt Foster Smith | *Chicago, Ill.* | 253 L. |
| Robert Lincoln Smitley | *Allegheny, Pa.* | 9 V. |

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|---|---|---|
| Cornelius Harry Snell | *Herkimer, N. Y.* | 13 V. |
| Willard Burr Soper | *Bloomington, Ill.* | 5 V. |
| Walter Bunce Spencer | *So. Manchester, Conn.* | 57 V. |
| Norval Burpee Spinney, B.A. Acadia University 1898 | *So. Farmington, N. S.* | 68 Whalley av. |
| Robert Allan Squire | *Meriden, Conn.* | 380 WH. |
| George Emanuel Stansfield | *Midland Park, N. J.* | 293 York st. |
| Henry Hamlin Stebbins, Jr. | *Rochester, N. Y.* | 334 WH. |
| Arthur Francis Stoddard Steele | *Auburn, N. Y.* | 386 B. |
| Edward Collins Stone | *Hartford, Conn.* | 312 W. |
| George Stuart Studwell, Jr. | *New York City* | 30 V. |
| Edgar Hinton Taylor | *Georgetown, Ky.* | 253 L. |
| Thomas Day Thacher | *New York City* | 59 V. |
| Chauncey Edwards Treadwell | *Flushing, N. Y.* | 255 L. |
| Harold Hathaway Trusdell | *New Haven, Conn.* | 297 Crown st. |
| Carll Tucker | *Albany, N. Y.* | 30 V. |
| Howard MacGregor Tuttle | *Syracuse, N. Y.* | 13 V. |
| William Bryan Wait | *Auburn, N. Y.* | 347 WH. |
| Francis Eames Walton | *Brooklyn, N. Y.* | 17 V. |
| Sheldon Eaton Wardwell | *Haverhill, Mass.* | 37 V. |
| Karl Watson Warmcastle | *Pittsburg, Pa.* | 19 V. |
| William Hyde Warner, B.A. Colorado College 1902 | *Hartford, Conn.* | 79 Broadway |
| Bronson Mills Warren | *Bridgeport, Conn.* | 21 V. |
| Frank Lord Warrin, Jr. | *Stockbridge, Mass.* | 27 V. |
| John Louis Waters | *New York City* | 4 V. |
| Clayton Wolcott Welles | *Wethersfield, Conn.* | 380 WH. |
| Paul Bessal Welles | *Scranton, Pa.* | 47 V. |
| George William Welsh | *New York City* | 17 V. |
| Earle Rogers Whipple | *Whitinsville, Mass.* | 354 WH. |
| William Ernest Whiting | *New Haven, Conn.* | 389 B. |
| Frederick Holme Wiggin, Jr. | *Litchfield, Conn.* | 59 V. |
| Justice Wilson | *Toledo, O.* | 63 V. |
| Burnside Winslow | *Philadelphia, Pa.* | 20 V. |
| Garrard Bigelow Winston | *Chicago, Ill.* | 25 V. |
| Aaron Wittstein | *Bridgeport, Conn.* | 72 S. M. |
| James Haydon Wömelsdorf | *Pottsville, Pa.* | 67 V. |
| Sumner Byrne Woodbridge | *Somerville, Mass.* | 407 B. |
| George William Ezra Woodruff | *Brooklyn, N. Y.* | 57 V. |
| John Eastman Woodruff | *Brooklyn, N. Y.* | 52 V. |
| Fred Apgar Wyckoff | *East Stroudsburg, Pa.* | 411 B. |
| Jesse Watkins Wynne | *Memphis, Tenn.* | 42 V. |
| Horace Frederick Zollars | *Fort Wayne, Ind.* | 33 V. |

SENIORS, 285

## JUNIOR CLASS

| | | |
|---|---|---|
| Albert Ross Abbott | *Easthampton, Mass.* | 329 W. |
| Fred Ackert | *Washington, D. C.* | 320 W. |
| Frederick Leonard Adams | *Brooklyn, N. Y.* | 465 FW. |
| Henry Thomas Allen | *Lyon, Miss.* | 317 W. |
| Thomas Bertram Anderson | *Delhi, N. Y.* | 356 WH. |
| Horace White Armstrong | *Chicago, Ill.* | 435 FW. |
| Herbert Nathaniel Arnstein | *St.Louis, Mo.* | 75 S. M. |
| Albert Aston | *Brooklyn, N. Y.* | 455 FW. |
| Harry Hall Atwater | *Auburn, N. Y.* | 158 F. |
| Lewis Emanuel Bamberger | *New York City* | 311 W. |
| Edward Johnson Barber | *Manchester, Conn.* | 264 L. |
| William Marvin Barlow | *Rock Rift, N. Y.* | 291 W. |
| Walcott Duryea Bartlett | *New York Mills, N. Y.* | 348 WH. |
| Hamilton Baxter | *Nashville, Tenn.* | 460 FW. |
| Raymond Augustus Beardslee | *Windsor, Conn.* | 264 L. |
| John Eldridge Bentley | *McMinnville, Tenn.* | 260 L. |
| Charles Hubbell Bidwell | *Shelton, Conn.* | 94 S. M. |
| Arthur Willis Blackman | *New Haven, Conn.* | 147 F. |
| James Ralph Bloomer | *Cincinnati, O.* | 437 FW. |
| Bradford Boardman | *New York City* | 1076 Chapel st. |
| George Milmine Bodman | *New York City* | 322 W. |
| Herbert Luther Bodman | *New York City* | 322 W. |
| Arthur Howe Bradford | *Montclair, N. J.* | 398 B. |
| Carl Brewer | *New Haven, Conn.* | 203 D. |
| William Thompson Briggs | *Nashville, Tenn.* | 317 W. |
| James Beardsley Brinsmade | *Derby, Conn.* | 433 FW. |
| Edward Little Brooks | *Wyoming, O.* | 325 W. |
| Frame Clemens Brown | *Columbus, O.* | 316 W. |
| J. Sidney Brown, Jr. | *Denver, Colo.* | 321 W. |
| Gilbert Browning | *Morristown, N. J.* | 241 L. |
| Harold Bruff | *Brooklyn, N. Y.* | 432 FW. |
| Francis Buckley | *Ansonia, Conn.* | Ansonia |
| Charles Stone Bulkley | *Summit, N. J.* | 341 WH. |
| Donald Charles Bunn | *St.Paul, Minn.* | 284 W. |
| Paul Morgan Butterfield | *Wilmington, Vt.* | 169 F. |
| Carl Herman Carroll | *Rochester, N. Y.* | 337 WH. |
| William Julius Champion, Jr. | *Grand Rapids, Mich.* | 422 B. |
| Charles Jarvis Chapman, Jr. | *Portland, Me.* | 441 FW. |
| Frank Burnham Chapman | *Auburn, N. Y.* | 461 FW. |
| George Nathaniel Holmes Clement | *Brooklyn, N. Y.* | 305 W. |

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|---|---|---|
| Roland Baldwin Coe | *Newark, N. J.* | 246 L. |
| Albert Merrill Coit | *Grand Rapids, Mich.* | 456 FW. |
| Runyon Colie | *East Orange, N. J.* | 327 W. |
| John Morris Comstock | *Rome, N. Y.* | 440 FW. |
| Walter Bannister Congdon | *Duluth, Minn.* | 442 FW. |
| George Paul Cooke | *Honolulu, H. I.* | 23 V. |
| Louis Emile Coté | *Baltic, Conn.* | 418 B. |
| Irving Nicholas Countryman | *New Haven, Conn.* | 384 Greenwich av. |
| Willis Arthur Countryman, Jr. | *Hartford, Conn.* | 13 May st. |
| Bainbridge Cowell | *Cleveland, O.* | 405 B. |
| Urban Cronan | *New Haven, Conn.* | 456 FW. |
| Francis Quinn Cronin | *New London, Conn.* | 306 W. |
| Boyd Graphic Curts | *Gloversville, N. Y.* | 369 WH. |
| Paul Curts | *Gloversville, N. Y.* | 369 WH. |
| Cornelius Edward Daly | *Worcester, Mass.* | 306 W. |
| Robert Duff Dalzell | *Pittsburg, Pa.* | 377 WH. |
| David Edward Dangler | *Cleveland, O.* | 332 WH. |
| William Theodore Darby | *Paterson, N. J.* | 144 F. |
| Lawrence Darr | *Pittsburg, Pa.* | 441 FW. |
| Edmund Montgomery Davidson | *Huntington, N. Y.* | 422 B. |
| Pierpont VanDerveer Davis | *Elizabeth, N. J.* | 289 W. |
| Frederick Huntington Day | *Indianapolis, Ind.* | 310 W. |
| William Dwight Dean | *Evanston, Ill.* | 324 W. |
| John Bellows DeForest | *Bridgeport, Conn.* | 141 F. |
| Chester Rhoades DeLaVergne | *New York City* | 344 WH. |
| Jesse Vincent Devine | *Waterbury, Conn.* | 283 W. |
| Frederick Ferriss Dodd | *New Milford, Conn.* | 356 WH. |
| Henry Groff Dodge | *Cleveland, O.* | 289 W. |
| William Leonard Dougherty | *Westboro, Mass.* | A. |
| Walter Dyson | *Paris, Ill.* | 677 W. D. |
| George Holmes Edwards | *Bridgeport, Conn.* | 324 W. |
| Henry Hodgdon Elliot | *Waterbury, Vt.* | 421 B. |
| John Stoughton Ellsworth | *Simsbury, Conn.* | 345 WH. |
| Charles Rhein Essick | *Reading, Pa.* | 152 F. |
| Walter Filmer Evans | *Gloversville, N. Y.* | 369 WH. |
| Richard Monroe Fairbanks | *Indianapolis, Ind.* | 426 FW. |
| Charles Samuel Fallows | *Chicago, Ill.* | 310 W. |
| Stuyvesant Fish, Jr. | *New York City* | 390 B. |
| Harold Albert Fisher | *Chicago, Ill.* | 326 W. |
| Augustus Richey Fisk | *Plainfield, N. J.* | 24 V. |
| Charles Wilbur Fisk | *Plainfield, N. J.* | 437 FW. |
| Joseph Marion Forsyth | *Franklin, N. Y.* | 291 W. |
| Harry Ellsworth Fowler | *Plantsville, Conn.* | 159 F. |
| Frank Duff Frazier | *Evanston, Ill.* | 287 W. |

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|---|---|---|
| Leonard Martin Frey | *Rome, N. Y.* | 329 W. |
| Stanleigh Pohly Friedman | *Albany, N. Y.* | 299 W. |
| Lowell Chester Frost | *Buffalo, N. Y.* | 377 WH. |
| Randolph Frothingham | *Scranton, Pa.* | 464 FW. |
| Henry Alansin Gardner, Jr. | *Hinsdale, Ill.* | 426 FW. |
| Fred Elijah Gleason | *Montpelier, Vt.* | 436 FW. |
| Jerome Albert Goldman | *Cincinnati, O.* | 454 FW. |
| Howard Lehman Goodhart | *New York City* | 462 FW. |
| James Lippincott Goodwin | *New York City* | 293 W. |
| Francis Erskine Graff | *Pittsburg, Pa.* | 69 V. |
| Joseph Lambert Gray | *Avondale, Cincinnati, O.* | 63 V. |
| Herman Charles Groman | *Odebolt, Iowa* | 134 F. |
| Marcus Brown Hall | *Grand Rapids, Mich.* | 383 B. |
| Alfred Ernest Hamill | *Chicago, Ill.* | 332 WH. |
| Willis Tracy Hanson, Jr. | *Schenectady, N. Y.* | 309 W. |
| Morin Scott Hare | *New York City* | 240 D. |
| Caryl Smith Harris | *Walton, N. Y.* | 416 B. |
| George Mills Harris | *Wethersfield, Conn.* | 149 F. |
| Arthur Haserot | *Cleveland, O.* | 326 W. |
| Nelson Smiley Hastings | *Bradford, Pa.* | 290 W. |
| Henry Ernst Haws | *Peekskill, N. Y.* | 424 FW. |
| Edward Francis Hayes | *Cohoes, N. Y.* | 165 F. |
| Roy Willet Hemingway | *Syracuse, N. Y.* | 309 W. |
| George Stanley Hendel | *Reading, Pa.* | 304 W. |
| Allen Bronson Henry | *North Bennington, Vt.* | 294 W. |
| Hugh Horatio Henry | *Concord, N. H.* | 294 W. |
| Louis Hertz | *Hazleton, Pa.* | 376 WH. |
| Charles Frederick Hewitt | *Meriden, Conn.* | 251 L. |
| Arthur White Hildreth | *Southampton, N. Y.* | 146 F. |
| Theodore Edward Hill | *New Haven, Conn.* | 666 W. D. |
| Douglas Meade Hoffecker | *Wilmington, Del.* | 292 W. |
| James Joseph Hogan | *Torrington, Conn.* | 445 FW. |
| Buell Hollister | *Islip, L. I., N. Y.* | 331 WH. |
| Lloyd Burdwin Holsapple | *Hudson, N. Y.* | 1076 Chapel st. |
| Aubrey Milton Holter | *Helena, Mont.* | 295 W. |
| George Burton Hotchkiss | *Naugatuck, Conn.* | 149 F. |
| James Lawrence Houghteling, Jr. | *Winnetka, Ill.* | 203 D. |
| Morton Albertson Howard | *Yonkers, N. Y.* | 333 WH. |
| Raymond Reed Howe | *Auburn, N. Y.* | 436 FW. |
| Berrien Hughes | *Denver, Colo.* | 373 WH. |
| Albert Wallace Hull | *Torrington, Conn.* | 151 F. |
| Argall LeRoy Hull | *New Haven, Conn.* | 336 WH. |
| Edward Boltwood Hull | *Pittsfield, Mass.* | 342 WH. |
| Willard Curtis Hyatt | *Meriden, Conn.* | 251 L. |

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|---|---|---|
| George William Stanley Ish | *Little Rock, Ark.* | 666 W. D. |
| William Johnson Jack | *Indiana, Pa* | 1081 Chapel st. |
| Pharselus Verona Crittenden Jackson | *Rochester, N. Y.* | 406 B. |
| Clement Snow Jacobus | *Springfield, Mass.* | 247 L. |
| Robert Archibald Jelliffe | *Brooklyn, N. Y.* | 459 FW. |
| Louis White Johnston | *Rochester, N. Y.* | 406 B. |
| Samuel Parker Johnston | *Chicago, Ill.* | 348 WH. |
| Charles Sheldon Judd | *Honolulu, H. I.* | 23 V. |
| Ethan Wood Judd | *Olean, N. Y.* | 427 FW. |
| Samuel Elliot Judd | *Holyoke, Mass.* | 368 WH. |
| Asa Rathbone Kelley | *Chicago, Ill.* | 2 V. |
| John Russell Kennedy | *McSparran, Pa.* | 325 W. |
| William Henry Kennedy | *Derby, Conn.* | Derby |
| Charles Ferdinand Kerrigan | *Brooklyn, N. Y.* | 455 FW. |
| Gilbert Kinney | *New Haven, Conn.* | 352 WH. |
| Edward Kirkham | *Hastings-on-Hudson, N. Y.* | 345 WH. |
| Edward Musgrave Lacey | *Evanston, Ill.* | 27 V. |
| Charles Augustus LaMont | *Albion, N. Y.* | 356 WH. |
| Guy Carleton Lamson | *Watertown, Conn.* | 342 WH. |
| John Hiram Lathrop | *Kansas City, Mo.* | 240 D. |
| Elbert Squire Latimer | *Norwalk, O.* | 169 F. |
| Rae Thornton LaVake | *New York City* | 341 WH. |
| Charles Lanier Lawrance | *Bay Shore, L. I., N. Y.* | 340 WH. |
| Stewart Alfred LeBlanc | *New Orleans, La.* | 335 WH. |
| Charles Alonzo Leonard | *Pittsfield, Ill.* | 40 V. |
| Edward Stephen Little | *St. Louis, Mo.* | 287 W. |
| William Kellogg Loomis | *Troy, N. Y.* | 424 FW. |
| Harry Howard Loudenslager | *Paulsboro, N. J.* | 318 W. |
| Benedict Edward Lyons | *Thomaston, Conn.* | 165 F. |
| Walter Raymond McCoy | *Burlington, N. J.* | 328 W. |
| Albert Steele McCullough | *Watertown, N. Y.* | 328 W. |
| Kingsley Rich MacGuffey | *Boston, Mass.* | 444 FW. |
| Arthur Packer McKinstry | *Worcester, Mass.* | 337 WH. |
| Walter Eugene Marsden | *Johnstown, Pa.* | 430 FW |
| Samuel Livingston Mather | *Cleveland, O.* | 383 B. |
| Duncan Ivers Meier | *St. Louis, Mo.* | 308 W. |
| Aaron Riley Merritt | *East Aurora, N. Y.* | 353 WH. |
| Roland William Mersereau | *Portville, N. Y.* | 427 FW. |
| Harold Milbank | *New York City* | 352 WH. |
| Eugène Bliss Milburn | *Helena, Mont.* | 457 FW. |
| Charles Dexter Morris | *Olean, N. Y.* | 129 F. |
| Russell Perry Morrison | *Brooklyn, N. Y.* | 400 B. |
| Thornton Taft Munger | *New Haven, Conn.* | 465 FW. |
| Edgar Munson | *Williamsport, Pa.* | 61 V. |

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| Elmer Belding Myers | *Auburn, N. Y.* | 674 W. D. |
| Walter Dennis Myers | *Marysville, Pa.* | 414 B. |
| Chester Trenholm Neal | *Newtonville, Mass.* | 290 W. |
| Charles Washburn Nichols | *New Haven, Conn.* | 85 S. M. |
| Harry Levin Roeschlaub Nickerson | *Quincy, Ill.* | 342 WH. |
| Edward John Noble | *Gouverneur, N. Y.* | 368 WH. |
| Levi Fatzinger Noble | *Auburn, N. Y.* | 321 W. |
| Albert Chapman Norman | *Norwich, Conn.* | 286 W. |
| Charles Reinold Noyes | *St. Paul, Minn.* | 301 W. |
| Daniel Raymond Noyes | *St. Paul, Minn.* | 31 V. |
| Frederick Louis Nuhn | *Waterbury, Conn.* | 283 W. |
| David Lyman Oleson | *Warren, Mass.* | 395 B. |
| Howard Palmer | *Norwich, Conn.* | 286 W. |
| Walter Hobart Palmer | *Branford, Conn.* | Branford |
| Abel Bennett Palmerton | *Cannonsville, N. Y.* | 291 W. |
| Martin Kellogg Pasco, Jr. | *Berea, Ky.* | 144 F. |
| Maurice Henry Pease | *New Britain, Conn.* | 457 FW. |
| Clifford Harris Peek | *East Aurora, N. Y.* | 353 WH. |
| William Frederick Peter, 2d | *Seymour, Ind.* | 462 FW. |
| Eugene James Phillips | *New Haven, Conn.* | 281 Howard av. |
| Lawrence Alson Pomeroy | *Cleveland, O.* | 330 W. |
| Frank Brinley Porter | *New York City* | 293 W. |
| Seton Porter | *Lawrence, L. I., N. Y.* | 390 B. |
| George Washington Powell | *Princess Anne, Md.* | 365 WH. |
| Bryant Hawk Prentice | *East Aurora, N. Y.* | 372 WH. |
| Henry Augustine Raymond | *Cleveland, O.* | 320 W. |
| Archie Mudge Reid | *Yonkers, N. Y.* | 240 D. |
| James Bernard Reilly, Jr. | *Atlantic City, N. J.* | 206 D. |
| Gardner Richardson | *Athens, Greece* | 333 WH. |
| Frank Stanley Rickcords | *Chicago, Ill.* | 435 FW. |
| George Roberts | *Brooklyn, N. Y.* | 337 WH. |
| John Taylor Roberts | *Hartford, Conn.* | 313 W. |
| James Grafton Rogers | *Denver, Colo.* | 398 B. |
| Robert George Sanford | *Island Pond, Pa.* | 82 S. M. |
| Murray Sargent | *New Haven, Conn.* | 460 FW. |
| Leonard Franklin Sawvel | *Greenville, Pa.* | 393 B. |
| Henry Richard Schenker | *Holyoke, Mass.* | 247 L. |
| Basil Scott | *New Brighton, S. I., N. Y.* | 25 V. |
| Earle Buckingham Seeley | *Washington, Conn.* | 151 F. |
| Joseph Seronde | *Norwalk, Conn.* | 137 F. |
| Merle Lewis Sheffer | *Rochester, N. Y.* | 414 B. |
| Harrison Tweed Sheldon | *New Haven, Conn.* | 383 B. |
| Harold Mercer Shoemaker | *Wilkes-Barré, Pa.* | 440 FW. |

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| Richard Eskine Simpson | *Arnot, Pa.* | 159 F. |
| Chauncey Milton Sincerbeaux | *Moravia, N. Y.* | 391 B. |
| John Carroll Slade | *Kelloggsville, N. Y.* | 391 B. |
| John Sloane, Jr. | *New York City* | 31 V. |
| James Cook Smillie | *New York City* | 1076 Chapel st. |
| Carl Benton Smith | *Buffalo, N. Y.* | 442 FW. |
| Stanley MacDonald Smith | *Philadelphia, Pa.* | 336 WH. |
| William Thomas Snider | *Walden, N. Y.* | 155 F. |
| Harold Sooysmith | *Green's Farms, Conn.* | 335 WH. |
| Henry Blanchard Spaulding | *Santa Barbara, Cal.* | 372 WH. |
| Alfred Lyon Spencer | *Jasper, N. Y.* | 232 D. |
| George Selden Spencer | *Deep River, Conn.* | 461 FW. |
| Frank Squier, Jr. | *Brooklyn, N. Y.* | 319 W. |
| Albert Mason Stevens | *Willimantic, Conn.* | 18 Dwight st. |
| Walter Negley Stillman | *Brooklyn, N. Y.* | 345 WH. |
| Enoch Vine Stoddard, Jr. | *Rochester, N. Y.* | 273 L. |
| Edward Seymour Stringer | *St. Paul, Minn.* | 385 B. |
| Russell Sullivan | *Indianapolis, Ind.* | 444 FW. |
| Harry Patterson Sweeny | *Drifton, Pa.* | 376 WH. |
| Sidney Edward Sweet | *Grand Rapids, Mich.* | 435 FW. |
| Lawrence Swift | *New York City* | 338 WH. |
| Arthur Irving Taft | *Worcester, Mass.* | 387 B. |
| Amos Bateman Thacher | *Hartford, Conn.* | 338 WH. |
| Abel Cary Thomas | *New York City* | 305 W. |
| Ralph Hill Thomas | *New York City* | 344 WH. |
| Howell Bostwick Townsend | *Walton, N. Y.* | 433 FW. |
| Harold McLeod Turner | *Brooklyn, N. Y.* | 331 WH. |
| Leonard Sanford Tyler | *New Haven, Conn.* | 33 College st. |
| Elmer Willis VanBrunt | *Southampton, N. Y.* | 264 L. |
| Benjamin VanCampen | *Olean, N. Y.* | 430 FW. |
| William Knickerbocker VanReypen, Jr. | *Washington, D. C.* | 332 WH. |
| George Frederick Vietor, Jr. | *New York City* | 51 V. |
| Ernest Leonard Visanska | *Abbeville, S. C.* | 328 W. |
| John Barker Waite | *Toledo, O.* | 330 W. |
| Leonard Knickerbocker Walbridge | *Germantown, Pa.* | 388 B. |
| Charles Ives Waldo | *Chicago, Ill.* | 242 L. |
| Samuel Lyon Weyburn | *Scranton, Penn.* | 464 FW. |
| Henry White | *Springfield, Mass.* | 132 F. |
| Raymond Henry White | *New Haven, Conn.* | 147 F. |
| William Wurts White, Jr. | *Providence, R. I.* | 390 B. |
| Edwin Sheldon Whitehouse | *Newport, R. I.* | 340 WH. |
| Percival Arthur Whitmore | *New Haven, Conn.* | 48 Vernon st. |
| Cyrus French Wicker | *New York City* | 367 WH. |
| James Harvey Williams | *Brooklyn, N. Y.* | 63 V. |

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|---|---|---|
| Wallace Alvin Wilson | *Auburn, N. Y.* | 95 S. M. |
| Kenelm Winslow | *New York City* | 323 W. |
| Roger Henry Wolcott | *Laredo, Tex.* | 367 WH. |
| Charles Wright, Jr. | *Detroit, Mich.* | 318 W. |
| Harry Clinton York | *Lebanon, Conn.* | 94 S. M. |
| Palmer York | *New Haven, Conn.* | 200 Oak pl. |
| Albert Henry Yost | *Cincinnati, O.* | 397 B. |
| Luther Kimbell Zabriskie | *Norwich, Conn.* | 163 F. |

JUNIORS, 267

## SOPHOMORE CLASS

| | | |
|---|---|---|
| Mortimer Clark Addoms | *New York City* | 439 FW. |
| George Henry Warren Alden | *Cornwall, Pa.* | 22 College st. |
| Ernest Arthur Anderson | *Union City, Conn.* | 161 F. |
| Raymond Mills Anderson | *Newton Center, Mass.* | 250 Crown st. |
| Clarence Edward Andrews | *Norwalk, Conn.* | 280 L. |
| Guy Turner Arms | *New York City* | 22 College st. |
| Walter Preston Armstrong | *Coffeeville, Miss.* | 257 L. |
| Louis Malcom Atha | *Newark, N. J.* | 440 FW. |
| William Thompson Bacon | *Derby, Conn.* | 239 D. |
| Charles Henry Banks | *Amenia, N. Y.* | 250 Crown st. |
| Howard Mead Bartlett | *Malden, Mass.* | 278 L. |
| Lester Clement Barton | *Chicago, Ill.* | 268 L. |
| William Baxter, Jr. | *Wilmington, Del.* | 18 College st. |
| Frederick Hayward Beach | *Morristown, N. J.* | 215 D. |
| Harry Beal | *Oneida, N. Y.* | 175 F. |
| Ralph Blackhurst Bennett | *Waterville, N. Y.* | 131 F. |
| Louis Otto Bergh | *New York City* | 271 L. |
| Arthur Douglas Bissell, Jr. | *Buffalo, N. Y.* | 272 L. |
| Kenneth Boardman | *New York City* | 22 College st. |
| John Borden | *Chicago, Ill.* | 250 Crown st. |
| Timothy Lincoln Bouscaren | *Cincinnati, O.* | 254 Crown st. |
| Alfred Brand | *Chicago, Ill.* | 250 Crown st. |
| John Raymond Brandon | *Derby, Conn.* | 411 Temple st. |
| Alvin Chester Breul | *Bridgeport, Conn.* | 27 High st. |
| James Beebee Brinsmade | *New York City* | 245 L. |
| Chester Kingsley Brooks | *Cleveland, O.* | 254 Crown st. |
| Andrew Jennings Brown | *Milford, Conn.* | 236 Crown st. |
| Ben Overton Brown | *Denver, Colo.* | 22 College st. |
| McCleane Brown | *Allegheny, Pa.* | 439 FW. |
| Nelson Courtlandt Brown | *South Orange, N. J.* | 235 D. |
| Donald Bruce | *Easthampton, Mass.* | 279 L. |
| Edward Thorpe Bulkley | *Fairfield, Conn.* | 1076 Chapel st. |
| Frederick Kingsbury Bull | *New York City* | 22 College st. |
| Sidney Rogers Burnap, Jr. | *Windsor Locks, Conn.* | 23 V. |
| Charles Carver, Jr. | *Philadelphia, Pa.* | 236 Crown st. |
| Arthur Howard Clark | *Leonard Bridge, Conn.* | 131 F. |
| Robert Lincoln Clark | *Ansonia, Conn.* | 268 L. |
| Wedworth William Clarke | *Jackson, Mich.* | 22 College st. |
| Ralph Mortimer Coe | *Cleveland, O.* | 254 Crown st. |

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|---|---|---|
| Sidney Rogers Cook | *South Weymouth, Mass.* | 427 FW. |
| Richard Alexander Cooke | *Honolulu, H. I.* | 22 College st. |
| Theodore Strong Cooley | *Auburndale, Mass.* | 250 L. |
| John Edward Copps | *West Rutland, Vt.* | 206 D. |
| Edwin Corning | *Albany, N. Y.* | 22 College st. |
| Walter Hurd Coursen | *Scranton, Pa.* | 233 D. |
| Walter Ruel Cowles | *New Haven, Conn.* | 297 W. |
| Orris Ray Critchlow | *Clarion, Pa.* | 216 D. |
| Nellis Maynard Crouse | *Utica, N. Y.* | 22 College st. |
| Sidney Bradford Curtis | *Brooklyn, N. Y.* | 42 College st. |
| Herbert Hallock Cutler | *Bridgeport, Conn.* | 163 F. |
| Henry Fowler Damon | *Honolulu, H. I.* | 22 College st. |
| Joseph Dart, Jr. | *Buffalo, N. Y.* | 22 College st. |
| Dragan Zaharia Daskaloff | *Kavadartsy, Macedonia* | 115 Dwight st. |
| Friend St.Clair Dickinson | *Westbrook, Conn.* | 237 D. |
| William Hughes Diller | *Springfield, Ill.* | 27 College st. |
| Harold Edwin Dimock | *Hartford, Conn.* | 236 Crown st. |
| Effingham Nevins Dodge | *Paterson, N. J.* | 296 W. |
| George Stuart Dole | *Bath, Me.* | 91 S. M. |
| Louis Alexander Dole | *Bath, Me.* | 91 S. M. |
| John Hampden Dougherty, Jr. | *Brooklyn, N. Y.* | 209 D. |
| Louis deVierville Dousman | *Prairie du Chien, Wisc.* | 22 College st. |
| Frank Collins Downing | *Kansas City, Mo.* | 22 College st. |
| Harold Espe Drew | *Ansonia, Conn.* | 239 D. |
| William Mason Duncan | *Russellville, Ky.* | 257 L. |
| John Gilmore Dunlap | *Philadelphia, Pa.* | 225 D. |
| Edward Farnsworth Dustin | *Hartford, Conn.* | 22 College st. |
| Augustus Wilson Eddy | *Washington, D. C.* | 22 College st. |
| Francis Bolton Elwell | *Norwich, Conn.* | 245 L. |
| Grosvenor Ely | *Norwich, Conn.* | 22 College st. |
| Edwin Rogers Embree | *Berea, Ky.* | 261 L. |
| John Raymond Engle | *Palmyra, Penn.* | 373 Crown st. |
| Alfred Ethridge | *Rome, N. Y.* | 22 College st. |
| James Edwin Ewers | *Fredericktown, O.* | 261 L. |
| James Linwood Fawley | *Philadelphia, Pa.* | 280 L. |
| Horace Farwell Ferry | *Lake Forest, Ill.* | 250 Crown st. |
| Samuel Field, Jr. | *Philadelphia, Pa.* | 22 College st. |
| John Joseph Finegan | *Lawrence, Mass.* | 231 D. |
| Littleton Holmes Fitch | *New York City* | 1076 Chapel st. |
| Benjamin Fitzpatrick | *Kansas City, Mo.* | 260 Crown st. |
| Roger Yale Flanders | *Milwaukee, Wisc.* | 22 College st. |
| Alexander Rex Flinn | *Pittsburg, Pa.* | 358 WH. |
| Edward Coleman Flynn | *Meriden, Conn.* | Meriden |
| Frazer Lee Ford | *St.Joseph, Mo.* | 260 Crown st. |

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|---|---|---|
| Allen Evarts Foster | *New Haven, Conn.* | 379 WH. |
| George Starkweather Fowler | *New Haven, Conn.* | 166 F. |
| Irving Kent Fulton | *Waterbury, Conn.* | 22 College st. |
| William Walker Gibson | *Albany, N. Y.* | 27 College st. |
| William Stuart Glazier | *So. Glastonbury, Conn.* | 22 College st. |
| Hollis Currier Goodwin | *Haverhill, Mass.* | 95 S. M. |
| Howard Goodwin | *Hartford, Conn.* | 357 WH. |
| Charles Waterhouse Goodyear, Jr. | *Buffalo, N. Y.* | 22 College st. |
| Lemuel Whittington Gorham | *Albany, N. Y.* | 250 Crown st. |
| Peter Gow | *Holyoke, Mass.* | 315 Crown st. |
| Lincoln Depew Granniss | *East Haven, Conn.* | Station A |
| Lester Eames Grant | *Denver, Colo.* | 22 College st. |
| Robert Adam Gray | *Cincinnati, O.* | 458 FW. |
| John Nesmith Greely | *Washington, D. C.* | 202 D. |
| Crawford Greene | *Providence, R. I.* | 254 Crown st. |
| Albert Byron Gregory | *St.Louis, Mo.* | 254 Crown st. |
| Melville Brooks Gurley | *Washington, D. C.* | 379 WH. |
| John Richard Halsey | *Wilkes-Barré, Pa.* | 277 L. |
| Benjamin Pomeroy Hamlin | *Easthampton, Mass.* | 279 L. |
| Harold Eberhart Hammond | *Chicago, Ill.* | 22 College st. |
| George Cushman Hannahs | *Newark, N. J.* | 229 D. |
| Samuel Milby Harrington | *Brooklyn, N. Y.* | 219 D. |
| William Daniels Harris | *Minneapolis, Minn.* | 201 D. |
| William Hugh Harris | *Binghamton, N. Y.* | 22 College st. |
| Frank Anderson Hayes | *Buffalo, N. Y.* | 22 College st. |
| Donald Parker Haynie | *St.Paul, Minn.* | 201 D. |
| Harold Wade Headley | *East Orange, N. J.* | 208 D. |
| Dwight Ruggles Perry Heaton | *Washington, D. C.* | 260 Crown st. |
| Gustave Maurice Heckscher | *Huntington, L. I.* | 22 College st. |
| Grover Bates Higgins | *Columbus, O.* | 236 Crown st. |
| Edward Albert Holaday | *New Haven, Conn.* | 167 Lenox st. |
| Willard Deere Hosford | *Moline, Ill.* | 22 College st. |
| Edmund Grant Howe | *Hartford, Conn.* | 238 D. |
| Lydig Hoyt | *New York City* | 22 College st. |
| Morris Hudnut | *Terre Haute, Ind.* | 260 Crown st. |
| Alexander Pope Humphrey, Jr. | *Louisville, Ky.* | 458 FW. |
| William George Hunt | *Florence, Mass.* | 315 Crown st. |
| Harold Burton Jamison | *Gloversville, N. Y.* | 164 F. |
| Russell Dixon Janney | *Bridgeport, Conn.* | 42 College st. |
| Henry Gildersleeve Jarvis | *Portland, Conn.* | 226 D. |
| Walter Morrison Jeffords | *Philadelphia, Pa.* | 303 W. |
| Irenus Prime Keith | *Winchester, Tenn.* | 477 Elm st. |
| Augustus Wilkens Kelley, Jr. | *New York City* | 415 B. |
| Towner Kent | *Patterson, N. Y.* | 342 Crown st. |

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|---|---|---|
| Albert Rowden King | *Brooklyn, N. Y.* | 210 D. |
| Edmund Stanley Kochersperger | *New Haven, Conn.* | 274 L. |
| Walter Rudolf Koehler | *Cincinnati, O.* | 18 College st. |
| Harold Fowler Larkin | *Winsted, Conn.* | 164 F. |
| John Ely Lathrop | *Westfield, N. J.* | 157 F. |
| Henry Wells Lawrence, Jr. | *White Plains, N. Y.* | 80 S. M. |
| Robinson Leech | *Brooklyn, N. Y.* | 254 Crown st. |
| George Burwell Leggett | *New York City* | 237 D. |
| Franklin Butler Lord, Jr. | *New York City* | 335 WH. |
| George Cabot Ward Low | *Brooklyn, N. Y.* | 22 College st. |
| Edmund Rutan Lupton | *Mattituck, N. Y.* | 215 D. |
| John Philip Lyons | *Indian Orchard, Mass.* | 269 L. |
| Donald McBride | *Cleveland, O.* | 288 W. |
| Wilson Shaw McClintock | *Pittsburg, Pa.* | 22 College st. |
| James Gore King McClure, Jr. | *Lake Forest, Ill.* | 379 WH. |
| William Pitt McCune | *Columbus, O.* | 22 College st. |
| Noah MacDowell, Jr. | *New York City* | 22 College st. |
| Abram Wilbur Mace | *Richmond, Mass.* | 266 L. |
| Donald Ashbrook McGee | *Plainfield, N. J.* | 22 College st. |
| Stanleigh Winslow Macgurn | *Milwaukee, Wisc.* | 172 F. |
| Stanley Robinson MacLane | *New Haven, Conn.* | 33 Howe st. |
| John Gillespie Magee | *Pittsburg, Pa.* | 358 WH. |
| Allen Schuyler Malcolm | *Melbourne, Australia* | 417 B. |
| Dwight Sterling Mallett | *Bridgeport, Conn.* | 164 F. |
| William Elder Marcus, Jr. | *Montclair, N. J.* | 288 W. |
| Joseph Lee Matthews | *Bass, Ala.* | 445 FW. |
| Henry Graham Meyer | *Allegheny, Pa.* | 18 College st. |
| Edward Shorrey Mills | *New York City* | 22 College st. |
| John Teobaldo Monzani | *Waterbury, Conn.* | 139 F. |
| William Singer Moorhead | *Greensburgh, Pa.* | 22 College st. |
| Barrington Moore | *New York City* | 22 College st. |
| Don Lorenzo Moore | *New York City* | 415 B. |
| Angus Washburn Morrison | *Minneapolis, Minn.* | 22 College st. |
| Charles Morse | *New Woodstock, N. Y.* | 412 B. |
| Robert Wilden Neeser | *New York City* | 22 College st. |
| Harold Clinton Nelson | *West Suffield, Conn.* | 215 D. |
| John Strong Newberry | *Cleveland, O.* | 260 Crown st. |
| William Disney Nichols | *Fayetteville, N. Y.* | 231 D. |
| Frank O'Brien | *Plattsburgh, N. Y.* | 297 W. |
| George Braddock Ogle | *Chicago, Ill.* | 22 College st. |
| Herbert Paul Onasch | *Andover, Mass.* | 17 Scranton st. |
| Raymond William Osborne | *Berea, Ky.* | 258 L. |
| George Grant Parkhurst | *Buffalo, N. Y.* | 108 High st. |
| George Frederick Parrish | *Wilkes-Barré, Pa.* | 1076 Chapel st. |

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|---|---|---|
| Edward Samuel Payton | *Westfield, Mass.* | 12 Edgewood av. |
| Frank Thurston Pendleton | *New London, Conn.* | 120 York st. |
| Lee James Perrin | *New Haven, Conn.* | 297 W. |
| Edward Charles Perry | *Honolulu, H. I.* | 262 L. |
| William Henry Peters | *Syracuse, N. Y.* | 236 Crown st. |
| John Case Phelps | *Binghamton, N. Y.* | 22 College st. |
| William Brace Pratt | *Brooklyn, N. Y.* | 18 College st. |
| Charles Wesley Price | *East Orange, N. J.* | 229 D. |
| Vernon Dana Price, Jr. | *Louisville, Ky.* | 227 D. |
| Warren Edward Price | *Los Angeles, Cal.* | 22 College st. |
| Russell Godine Pruden | *New York City* | 22 College st. |
| Henry Gould Ralston | *Lake Forest, Ill.* | 260 Crown st. |
| Stanley Forman Reed | *Maysville, Ky.* | 373 Crown st. |
| Robert John Rich | *Fort Dodge, Iowa* | 455 FW. |
| Caleb Shreve Ridgway, Jr. | *Columbus, N. J.* | 236 D. |
| Miles Bradley Riggs | *Palmyra, N. Y.* | 263 L. |
| Arthur Werner Rinke | *New York City* | 227 D. |
| Francis Clapp Robertson | *New York City* | 260 Crown st. |
| James Nichols Robinson | *Hornellsville, N. Y.* | 260 Crown st. |
| William Goodwin Robinson | *Williamsport, Pa.* | 216 D. |
| Foster Harry Rockwell | *Portland, Oregon* | 445 FW. |
| Edmund Pendleton Rogers | *Hyde Park, N. Y.* | 340 WH. |
| Platt Rogers, Jr. | *Denver, Colo.* | 22 College st. |
| Robert Landon Rogers | *Providence, R. I.* | 254 Crown st. |
| Merrill Burr Sands | *Newtonville, Mass.* | 254 Crown st. |
| George Paull Torrence Sargent | *Indianapolis, Ind.* | 462 FW. |
| Avery Milton Schermerhorn | *New Haven, Conn.* | 37 Lynwood pl. |
| Lester Randolph Scovill | *Bridgeport, Conn.* | Box 850, Yale P. O. |
| Philip Johnston Scudder | *New York City* | 236 D. |
| Edward Clarkson Seward, Jr. | *Montclair, N. J.* | 202 D. |
| Edward Power Sharretts | *Baltimore, Md.* | 316 W. |
| Paul Sheehan | *Buffalo, N. Y.* | 249 L. |
| William Brewster Shelton | *Norwalk, Conn.* | 162 F. |
| Everitt Anthony Sherwood | *Ottawa, Ill.* | 230 D. |
| Thomas Leonard Shevlin | *Minneapolis, Minn.* | 22 College st. |
| William Patten Shoemaker | *Wilkes-Barré, Pa.* | 1076 Chapel st. |
| Bruce Donald Smith | *Lake Forest, Ill.* | 22 College st. |
| Philip Chapin Smith, Jr. | *Westfield, Mass.* | 22 College st. |
| Carl Warrington Somers | *Auburn, N. Y.* | 161 F. |
| Edward Elbridge Spalding | *Lynn, Mass.* | 432 FW. |
| Crosby Buck Spinney | *Brooklyn, N. Y.* | 459 FW. |
| William Buell Sprague | *Flushing, N. Y.* | 22 College st. |
| William Lord Squire | *Meriden, Conn.* | 271 L. |
| Guy Thomas Stetson | *Nordhoff, Cal.* | 260 Crown st. |

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| Carleton Hickox Stevens | *New Haven, Conn.* | 166 F. |
| John Archibald Stevenson | *Chicago, Ill.* | 22 College st. |
| Charles Cyprian Strong, 2d | *Detroit, Mich.* | 22 College st. |
| George Berger Struby | *Denver, Colo.* | 260 Crown st. |
| George Sturges | *Chicago, Ill.* | 250 Crown st. |
| Henry Hawley Swords | *Morristown, N. J.* | 22 College st. |
| Fred Branford Syphax | *Washington, D. C.* | 12 Edgewood av. |
| Howard Taft | *Cincinnati, O.* | 295 W. |
| Arthur Hutchinson Terry, Jr. | *Patchogue, N. Y.* | 237 D. |
| Mahlon Daniel Thatcher, Jr. | *Pueblo, Colo.* | 22 College st. |
| Alfred Pembroke Thom, Jr. | *Norfolk, Va.* | 236 Crown st. |
| Norman Frederick Thompson, Jr. | *Rockford, Ill.* | 260 Crown st. |
| Carlyle Clifford Thomson | *West Hartford, Conn.* | 238 D. |
| Charles Terhune Tileston | *Binghamton, N. Y.* | 276 Prospect st. |
| Edwin Ward Tillotson, Jr. | *Farmington, Conn.* | 250 L. |
| Robert Fingland Tilney, 2d | *Plainfield, N. J.* | 373 WH. |
| Leonard Enos Todd | *Woodbridge, Conn.* | 77 S. M. |
| Lewis Holmes Tooker | *Brooklyn, N. Y.* | 210 D. |
| James Albert Toole | *Holyoke, Mass.* | 22 College st. |
| Spencer Turner | *Brooklyn, N. Y.* | 22 College st. |
| Charles Pratt Tuttle | *New Haven, Conn.* | 166 F. |
| Joseph Hooker Twichell | *Hartford, Conn.* | 357 WH. |
| George Underwood, Jr. | *Auburn, N. Y.* | 260 Crown st. |
| Chester Burrows VanTassel | *Brooklyn, N. Y.* | 254 Crown st. |
| Garrat Bleecker VanWagenen | *South Orange, N. J.* | 22 College st. |
| Faron Nelson Wakefield | *Port Chester, N. Y.* | 80 S. M. |
| Harris Walcott | *Indianapolis, Ind.* | 22 College st. |
| Otis Harvey Waldo, Jr. | *Chicago, Ill.* | 242 L. |
| James Harold Wallis | *Dubuque, Iowa* | 230 D. |
| William Alfred Walters | *Wyoming, Ill.* | 27 College st. |
| Henry Augustus Walton | *Brooklyn, N. Y.* | 22 College st. |
| Hiram Lee Ward | *Unadilla, N. Y.* | 172 F. |
| Donald Judson Warner, 2d | *Salisbury, Conn.* | 266 L. |
| John Warner | *Wilmington, Del.* | 22 College st. |
| Edmund Leon Warren | *Grafton, Mass.* | 209 D. |
| John Ryan Washburn | *Oyster Bay, N. Y.* | 78 S. M. |
| William VanAntwerp Waterman | *Albany, N. Y.* | 235 D. |
| Kenneth Ellingham Weeks | *Bridgeport, Conn.* | 1076 Chapel st. |
| Ralph Wesley Wescott | *Haddonfield, N. J.* | 234 D. |
| Arthur Leonard Westcott | *Oneonta, N. Y.* | 249 L. |
| Philip Trumbull White | *Brooklyn, Conn.* | 274 L. |
| Harry Howe Whittaker | *Wallingford, Conn.* | 143 Dwight st. |
| Richard Edmond Whittlesey | *New Haven, Conn.* | 135 Wall st. |
| Jere Raymond Wickwire | *Cortland, N. J.* | 22 College st. |

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|---|---|---|
| Richard Farrand Williams | *Detroit, Mich.* | 235 D. |
| Arthur Clarence Williamson | *Westfield, Mass.* | 258 L. |
| Hugh Robert Wilson | *Evanston, Ill.* | 22 College st. |
| Dwight Milton Wishard | *St. Paul, Minn.* | A. |
| Russell Seipt Wolfe | *Philadelphia, Pa.* | 22 College st. |
| Alexander James Wood | *Branford, Conn.* | Branford |
| Douglas Woodruff | *Auburn, N. Y.* | 461 FW. |
| William Hogencamp Wurts | *Paterson, N. J.* | 277 L. |
| Bayard Daniel York | *North Stonington, Conn.* | 131 F. |
| Clarence Hascy Young | *Albany, N. Y.* | 331 WH. |

SOPHOMORES, 269

## FRESHMAN CLASS

| | | |
|---|---|---|
| Gordon Wilson Abbott | *Plainfield, N. J.* | 523 P. |
| Fred Davis Abrams | *Olean, N. Y.* | 129 F. |
| Fritz George Achelis | *New York City* | 242 York st. |
| George Morris Adams | *New Haven, Conn.* | 237 York st. |
| Richard Steere Aldrich | *Providence, R. I.* | 1076 Chapel st. |
| George Elmer Anderson | *Canandaigua, N. Y.* | 573 P. |
| Austin Warmington Andrews | *Youngstown, O.* | 22 College st. |
| Louis Victor Architect | *Florida, N. Y.* | 74 S. M. |
| Carroll Emerson Armstrong | *Clinton, Iowa* | 402 B. |
| Frank Clifford Armstrong | *New Haven, Conn.* | 313 Humphrey st. |
| Ralfe Waldo Armstrong | *Hayesville, O.* | 217 York st. |
| Edgar Hobbs Arnold | *Brooklyn, N. Y.* | 597 P. |
| Nelson Irving Asiel | *New York City* | 250 York st. |
| Walter Joseph Austrian | *Chicago, Ill.* | 568 P. |
| John Ezra Ayers | *Spring Valley, N. Y.* | 1076 Chapel st. |
| Henry Denison Babcock, Jr. | *New York City* | 238 York st. |
| Edward Parsons Bagg, Jr. | *Holyoke, Mass.* | 250 York st. |
| Arthur Bowen Baker | *East Orange, N. J.* | 208 D. |
| Ernest Schwefel Ballard | *Philadelphia, Pa.* | 583 P. |
| William Deluce Barnes, Jr. | *Mansfield, Mass.* | 555 P. |
| Edward Morgan Barradale | *Orange, N. J.* | 140 F. |
| Edward Hudson Barstow | *St. Louis, Mo.* | 9 Library st. |
| Thomas Franklin Bausman | *Lancaster, Pa.* | 236 Crown st. |
| Chisholm Beach | *New York City* | 250 York st. |
| Morris Lyon Beard | *Durham, N. H.* | 154 F. |
| Edwin John Beinecke | *New York City* | 250 York st. |
| Douglas Jerrold Abbey Bell | *Portland, Conn.* | 176 F. |
| Edwin Bendheim | *New York City* | 596 P. |
| Howard Francis Bishop | *Chicago, Ill.* | 401 B. |
| Kenneth McLeod Bissell | *New York City* | 532 P. |
| William McCormick Blair | *Chicago, Ill.* | 203 York st. |
| William Carmichael Blyth | *Evanston, Wyo.* | 250 York st. |
| Philip Waldron Boardman | *New York City* | 242 York st. |
| George Borup | *Washington, D. C.* | 549 P. |
| Richard Hassard Boswell | *Brooklyn, N. Y.* | 590 P. |
| Howard Boulton | *New York City* | 242 York st. |
| Ernest Folger Bowman | *New Haven, Conn.* | 46 Edgewood av. |
| George Philip Braun, Jr. | *Chicago, Ill.* | 242 York st. |
| Carl Hammer Breaker | *Northampton, Mass.* | 648 George st. |
| Ambrose Breese, Jr. | *Chicago, Ill.* | 586 P. |
| Vincent Chetwood Brewer | *Hockanum, Conn.* | 1076 Chapel st. |
| Chester Jackson Briggs | *Newtonville, Mass.* | 213 York st. |

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|---|---|---|
| Ernest Milford Bristol | *Brooklyn, N. Y.* | 570 P. |
| Edgar Beecher Bronson, Jr. | *New York City* | 572 P. |
| Albert Leffingwell Brown | *Bloomfield, Conn.* | 51 Trumbull st. |
| Alexander Cushing Brown | *Cleveland, O.* | 242 York st. |
| Burt Layton Brown | *Gloversville, N. Y.* | 224 D. |
| Harold Seymour Brown | *Plainfield, N. J.* | 311 York st. |
| Richmond Lennox Brown | *Brooklyn, N. Y.* | 567 P. |
| James White Bruce | *Louisville, Ky.* | 217 York st. |
| Leroy Ewalt Bruner | *Orlando, Fla.* | 130 Howe st. |
| Morgan Gardner Bulkeley, Jr. | *Hartford, Conn.* | 250 York st. |
| Ludlow Seguine Bull | *New York City* | 242 York st. |
| Edward Hubert Butler, Jr. | *Buffalo, N. Y.* | 242 York st. |
| Arthur Goodwin Camp | *Winsted, Conn.* | 467 FW. |
| Rumsey Campbell | *Fairfield, Conn.* | 250 York st. |
| Winthrop Lakey Carter | *West Newton, Mass.* | 242 York st. |
| Clarence Edward Chaney | *Chicago, Ill.* | 217 York st. |
| Edward Barton Chapin | *Andover, Mass.* | 250 York st. |
| Franklin Glazier Chapin | *Greenwich, Conn.* | 260 Crown st. |
| Ralph Waldo Chase | *Farmington, Conn.* | 217 York st. |
| Robert Robinson Chase | *Lyndon, Vt.* | 254 Crown st. |
| Francis Deraismes Childs | *Hartford, Conn.* | 93 S. M. |
| William Bowen Church | *Meriden, Conn.* | Meriden |
| Joseph Herendeen Clark | *Brooklyn, N. Y.* | 570 P. |
| Norman Parsons Clement | *Buffalo, N. Y.* | 9 Library st. |
| William Ellsworth Clow, Jr. | *Chicago, Ill.* | 551 P. |
| George Hamilton Colket, Jr. | *Philadelphia, Pa.* | 545 P. |
| William Welch Collin, Jr. | *Pittsburg, Pa.* | 396 B. |
| Frederick Starr Collins | *Hartford, Conn.* | 226 York st. |
| William Ernest Collins | *Livingston, N. J.* | 121 Park st. |
| Charles Williams Comfort, Jr. | *Norristown, Pa.* | 452 FW. |
| Arthur Milton Comley | *Bridgeport, Conn.* | 156 F. |
| Harold William Condé | *Watertown, N. Y.* | 22 College st. |
| Lawrence Merritt Connell | *Scranton, Pa.* | 242 York st. |
| Richard Lord Jones Conner | *Rye, N. Y.* | 561 P. |
| Henry Nicholas Costello | *Hartford, Conn.* | 1101 Chapel st. |
| Leland Church Covey | *Minneapolis, Minn.* | 217 York st. |
| Joseph Graham Crane | *Dayton, O.* | 242 York st. |
| Seth Turner Crawford | *Randolph, Mass.* | 574 P. |
| John Dickey Culbertson, Jr. | *Sewickley, Pa.* | 260 Crown st. |
| James Cunningham | *San Francisco, Cal.* | 238 York st. |
| Robert Howe Cunningham | *New Castle, Pa.* | 250 York st. |
| Daniel Joseph Curran | *Haverhill, Mass.* | 159 Elm st. |
| Harry Alban Leonard Curran | *New Haven, Conn.* | 38 Lake pl. |
| Charles Gould Curtiss | *Buffalo, N. Y.* | 242 York st. |

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| Geoffrey Curtiss | *Buffalo, N. Y.* | 242 York st. |
| Ralph Dennis Cutler | *Hartford, Conn.* | 250 York st. |
| Forrest Leonard Daniels | *St. Paul, Minn.* | 248 York st. |
| Richard Ely Danielson | *Brooklyn, Conn.* | 583 P. |
| Charles Julius Davis | *Gloversville, N. Y.* | 587 P. |
| Richard Douglas Davis, Jr. | *Ashland, Ky.* | 535 P. |
| Franklin Augustus Dean, Jr. | *Allegheny, Pa.* | 540 P. |
| Clinton Demas Deming | *Hartford, Conn.* | 143 F. |
| Richard Henry Deming | *Hartford, Conn.* | 544 P. |
| Chester Merritt Deuel | *New York City* | 213 York st. |
| William Andrew DeWitt | *Willon, Conn.* | 585 P. |
| Theodore Polhemus Dixon | *New York City* | 238 York st. |
| Dunham Brown Dodge | *St.Louis, Mo.* | 7 Library st. |
| Philip Lyndon Dodge | *Morristown, N. J.* | 242 York st. |
| Liguori Alphonsus Doherty | *Murray, Idaho* | 314 W. |
| Frederic Russell Dolbeare | *Hartford, Conn.* | 470 FW. |
| Henry Ranken Donovan | *Brooklyn, N. Y.* | 591 Elm st. |
| Blatchford Downing | *Kansas City, Mo.* | 565 P. |
| Theodore Ives Driggs | *Waterbury, Conn.* | 248 York st. |
| Paul Drucklieb | *Stapleton, S. I., N. Y.* | 177 F. |
| Edward Lee Dummer | *Auburndale, Mass.* | 282 L. |
| Ralph Henry Dunning | *Auburn, N. Y.* | 158 F. |
| Russell Stearns Dwight | *Wyoming, O.* | 237 York st. |
| Rolland Mooney Edmonds | *Cincinnati, O.* | 250 York st. |
| William Lewis Einstein | *New York City* | 250 York st. |
| Paul Bradley Elmore | *Litchfield, Conn.* | 521 P. |
| Arthur Garfield Erwin | *Clear Branch, Tenn.* | 233 D. |
| Harold Pegram Fabian | *Salt Lake City, Utah* | 538 P. |
| Henry Robertson Failing | *Portland, Oregon* | 250 York st. |
| William Everett Fay | *Willimantic, Conn.* | 87 S. M. |
| Charles Milton Fessenden | *Stamford, Conn.* | 567 P. |
| William Sherman Fisher | *Denver, Colo.* | 242 York st. |
| Henry Fleischner | *New Haven, Conn.* | 920 Grand av. |
| Charles H. Foley | *Concord, N. H.* | 34 Hillhouse av. |
| Bainbridge Doty Folwell | *Buffalo, N. Y.* | 537 P. |
| Frederick Clifford Ford | *Detroit, Mich.* | 9 Library st. |
| Marshall Forrest | *Chicago, Ill.* | 233 York st. |
| Henry Albert Foster | *Maxwell, Tenn.* | 96 Howe st. |
| Talton Turner Francis | *St.Louis, Mo.* | 237 York st. |
| George William Franzheim | *Wheeling, W. Va.* | 233 York st. |
| Mason Anthony Freeman | *Bradford, Pa.* | 226 D. |
| Julius Walter Freiberg | *Cincinnati, O.* | 556 P. |
| Robert Henry Fruin | *Waterbury, Conn.* | 60 Ashmun st. |
| William Spencer Fuller | *Suffield, Conn.* | 403 B. |

| | | |
|---|---|---|
| George Napoleon Gaboury | *Chicopee Falls, Mass.* | 341 Sherman av. |
| Bertram Adolph Gabriel | *Brooklyn, N. Y.* | 530 P. |
| Umberto Dante Garfield | *Syracuse, N. Y.* | 589 P. |
| Charles Pew Garland | *Saco, Me.* | 250 York st. |
| Lorin Henry Gates | *Thomaston, Conn.* | 125 St. John st. |
| William Luther Gaylord | *Pasadena, Cal.* | 276 Orange st. |
| Irwin Le Roy Gelser | *Hagaman, N. Y.* | 315 Crown st. |
| Hugh Gillis | *Mt. Pleasant, Iowa* | 584 P. |
| George Brette Gleanzer | *New York City* | 242 York st. |
| Barzilla Parks Gooden | *Willow Grove, Del.* | 55 Trumbull st. |
| Philip Lippincott Goodwin | *New York City* | 238 York st. |
| William Henry Goodwin | *Burnside, Conn.* | 600 P. |
| Bradley Goodyear | *Buffalo, N. Y.* | 537 P. |
| Horace Miller Gray | *Norwalk, Conn.* | Norwalk |
| James W. Green, Jr. | *Gloversville, N. Y.* | 531 P. |
| Arthur Robbins Griswold | *Hartford, Conn.* | 546 P. |
| William Francis Gunn, Jr. | *Hartford, Conn.* | 213 York st. |
| Milton Bruce Hadley | *Black River, N. Y.* | 123 York st. |
| Wesley Herbert Haggett | *Hiawatha, Kans.* | 533 P. |
| Charles Herbert Halcomb, Jr. | *New York City* | 242 York st. |
| Clarence Russell Hall | *Woodstock, Conn.* | 174 F. |
| Isaac Staples Hall | *Medford, Mass.* | 254 Crown st. |
| Walter Phelps Hall | *Newburgh, N. Y.* | 236 D. |
| Fort Hammond | *Savannah, Ga.* | 22 College st. |
| Louis Walter Handel | *Buffalo, N. Y.* | 173 F. |
| Howard Edmiston Hannum | *Chester, Pa.* | 599 P. |
| Charles Edwin Hart, Jr. | *New Britain, Conn.* | 579 P. |
| Edward Henry Hart | *Brooklyn, N. Y.* | 570 P. |
| Walter Henry Hart | *Waterbury, Conn.* | 526 P. |
| Mortimer Hall Hartwell | *Albany, N. Y.* | 528 P. |
| Edwin Deeks Harvey | *Rock Ferry, England* | 145 Franklin st. |
| Harold Hauenstein | *Buffalo, N. Y.* | 582 P. |
| Harry Clifton Heaton | *Waterbury, Conn.* | 420 B. |
| Charles Bingham Heisler | *Albany, N. Y.* | 281 L. |
| Ben Crutcher Helm | *Louisville, Ky.* | 231 York st. |
| Charles Erle Hibbard | *Ottawa, Canada* | 379 Crown st. |
| Charles Hill | *Norwalk, Conn.* | 1076 Chapel st. |
| Graham Shields Hislop | *New London, Conn.* | 250 York st. |
| Percy William Holter | *Helena, Mont.* | 248 York st. |
| Charles Roberts Hopkins | *Philadelphia, Pa.* | 254 York st. |
| Bayard Cushing Hoppin | *New York City* | 203 York st. |
| Charles Melvin Horton | *Middletown, N. Y.* | 231 York st. |
| William Irving Howbert | *Colorado Springs, Colo.* | 9 Library st. |
| Henry Martyn Hoyt, Jr. | *Washington, D. C.* | 7 Library st. |

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|---|---|---|
| James Lanman Hubbard | *Norwich, Conn.* | 564 P. |
| Frederick Gray Hudson, Jr. | *Monroe, La.* | 248 York st. |
| James Howard Hull | *Torrington, Conn.* | 521 P. |
| Roger Benton Hull | *Greenfield, Mass.* | 568 P. |
| Russell Houston Hull | *Tuxedo Park, N. Y.* | 242 York st. |
| Robert Woolsey Hume | *New Haven, Conn.* | 24 Home pl. |
| Otis Scott Humphrey | *Springfield, Ill.* | 560 P. |
| Ernest Braislin Humpstone | *Brooklyn, N. Y.* | 459 FW. |
| Philip Woodward Hunt | *Cincinnati, O.* | 219 D. |
| Horace Lyman Huson | *Derby, Conn.* | Derby |
| Walter Waters Husted | *Denver, Colo.* | 242 York st. |
| Anson Blake Jackson, Jr. | *Minneapolis, Minn.* | 250 York st. |
| Charles Balfe Jackson | *Waterbury, Conn.* | 224 D. |
| Isaac Lamson Jennings | *Cleveland, O.* | 250 York st. |
| Stephen Jennings | *Deep River, Conn.* | 250 York st. |
| Gerard Edward Jensen | *Norwich, Conn.* | 535 P. |
| Frank Elmer Johnson | *New Haven, Conn.* | 139 Rosette st. |
| Marshall Olds Johnson | *Chicago, Ill.* | 575 P. |
| William Curtiss Johnson | *Yonkers, N. Y.* | 559 P. |
| William Kurtz Johnson | *Washington, D. C.* | 22 College st. |
| Jeremiah Howard Jones | *Haverhill, Mass.* | 231 York st. |
| Guysbert Vroom Jordan | *Clinton, Mass.* | 166 York st. |
| Richard Michael Joy | *Waterbury, Conn.* | 223 D. |
| Hal Rowe Kellogg | *New Haven, Conn.* | 54 Grove st. |
| Frederick Trowbridge Kelsey | *Orange, N. J.* | 250 York st. |
| James Madison Kennedy | *Chicago, Ill.* | 538 P. |
| Whitney Kernochan | *New York City* | 242 York st. |
| Horace Ogden Kilbourn | *Hartford, Conn.* | 600 P. |
| Charles Porter Kimball | *New York City* | 231 York st. |
| Clarence Hopkins King | *St. Louis, Mo.* | 242 York st. |
| Joseph Casimir Kircher | *Belleville, Ill.* | 566 P. |
| Karl Wendell Kirchwey | *New York City* | 154 F. |
| John Colby Kitchen | *Presque Isle, Me.* | 89 S. M. |
| James Waller Knott | *Chicago, Ill.* | 539 P. |
| Hugh Smith Knox | *Washington, D. C.* | 242 York st. |
| William Francis Knox | *Pittsburg, Pa.* | 7 Library st. |
| Ralph Damon Kochersperger | *New York City* | 250 York st. |
| Harold Kountze | *Denver, Colo.* | 242 York st. |
| Stephen Lesher Landon | *New York City* | 242 York st. |
| William James Larkin, Jr. | *Waterbury, Conn.* | 593 P. |
| Robert Cathcart Latimer | *York, Pa.* | 250 York st. |
| Edward Elliott Lattin | *Shelton, Conn.* | 365 WH. |
| George Andrew LaVie, Jr. | *Brooklyn, N. Y.* | 236 Crown st. |
| John Harold Lawrence | *Charleston, S. C.* | 250 York st. |

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|---|---|---|
| William Cecil Leavenworth | *New Haven, Conn.* | 31 William st. |
| Harold Dimock Lee | *Leeds, Mass.* | 238 York st. |
| Norman Alvah Leonard | *Willimantic, Conn.* | 100 Howe st. |
| Edmund Harris Lewis | *Syracuse, N. Y.* | 231 York st. |
| Harry Sinclair Lewis | *Sauk Center, Minn.* | 79 S. M. |
| Lester Sweet Lewis | *Buffalo, N. Y.* | 9 Library st. |
| Nathan Everett Lincoln | *Walton, N. Y.* | 142 F. |
| Mitchell Stuart Little | *Hartford, Conn.* | 250 York st. |
| Leighton Lobdell | *Buffalo, N. Y.* | 558 P. |
| Manice DeForest Lockwood, Jr. | *Norwalk, Conn.* | 248 L. |
| Robert Ralph Lockwood | *Zelienople, Pa.* | 248 York st. |
| Henry Stow Lovejoy | *Janesville, Wisc.* | 563 P. |
| John Gilbert Lowe | *Dayton, O.* | 250 York st. |
| Tasker Gantt Lowndes | *Cumberland, Md.* | 250 York st. |
| Franklin Alcott Lum | *West Haven, Conn.* | West Haven |
| Maurice Francis Lyons | *Indian Orchard, Mass.* | 269 L. |
| George McAuliff | *Chicago, Ill.* | 599 P. |
| Paul Ely McChesney | *New Brunswick, N. J.* | 174 F. |
| Bowdoin Updike McClintock | *Pittsburg, Pa.* | 469 FW. |
| Frank Stockton McClintock | *Pittsburg, Pa.* | 470 FW. |
| Chauncey Brooks McCormick | *Chicago, Ill.* | 237 York st. |
| Constantine Joseph MacGuire, Jr. | *New York City* | 220 D. |
| Donald Francis MacKay | *New York City* | 22 College st. |
| Arthur James McKenna | *New York City* | 220 D. |
| William Holmes Mackenzie | *Lima, O.* | 231 York st. |
| Sumner Thomas McKnight, Jr. | *Minneapolis, Minn.* | 242 York st. |
| Raymond Richard McOrmond | *Haverhill, Mass.* | 159 Elm st. |
| Rufus Sherrell Maddox | *Dellrose, Tenn.* | 477 Elm st. |
| Herbert Lawrence Malcolm | *Melbourne, Australia* | 13 Park st. |
| Howard Jones Mandell | *Ellington, Conn.* | 533 P. |
| Francis Edgerton Manierre | *Chicago, Ill.* | 551 P. |
| Keith Rollin Manville | *Carbondale, Pa.* | 231 York st. |
| Francis Hartman Markoe, Jr. | *New York City* | 1151 Chapel st. |
| Robert Davies Marshall | *Painesville, O.* | 578 P. |
| George Carrington Mason | *Chicago, Ill.* | 7 Library st. |
| Amasa Stone Mather | *Cleveland, O.* | 242 York st. |
| Nelson Bush Mayo | *New York City* | 238 York st. |
| Benjamin Heath Mead | *New Canaan, Conn.* | 218 D. |
| Harold Mead | *Bakersfield, Vt.* | 363 WH. |
| Dwight Raymond Meigs | *Pottstown, Pa.* | 242 York st. |
| Samuel Francis Melcher | *Salem, Mass.* | 47 Lake pl. |
| Charles Goodwin Merriam | *Lexington, Mass.* | 233 York st. |
| Eugene Leavens Mersereau | *Portville, N. Y.* | 278 L. |
| John Jacob Metzger | *Olean, N. Y.* | 588 P. |

| | | |
|---|---|---|
| Schuyler Merritt Meyer | *New York City* | 217 York st. |
| Robert Middlebrook, Jr. | *Kansas City, Mo.* | 27 High st. |
| William Henry Milholland | *Walden, N. Y.* | 1081 Chapel st. |
| James Raglan Miller | *Westfield, Mass.* | 552 P. |
| James Lynn Mitchell | *Franklin, Pa.* | 242 York st. |
| William Crittenden Mooney, Jr. | *Woodsfield, O.* | 250 York st. |
| Henry Butler Moore, Jr. | *Brooklyn, N. Y.* | 581 P. |
| Raymond Bartlett Morris | *Olean, N. Y.* | 129 F. |
| Philip Lefèvre Morrison | *Boston, Mass.* | 61 Dwight st. |
| Samuel Finley Brown Morse | *Newtonville, Mass.* | 242 York st. |
| Reed Moyer | *Center Lisle, N. Y.* | 217 York st. |
| Edward Theodore Newell | *Kenosha, Wisc.* | 522 P. |
| Arthur Gove Newton | *Hartford, Conn.* | 248 York st. |
| Douglas Keefer Noyes | *Orange, N. J.* | 121 Park st. |
| Frederick Kinney Noyes | *Norwich, Conn.* | 592 P. |
| John Francis O'Brien | *Meriden, Conn.* | Meriden |
| Joseph Francis O'Brien | *Meriden, Conn.* | Meriden |
| Irving Sands Olds | *Erie, Pa.* | 231 York st. |
| Charles Oliver | *Allegheny, Pa.* | 524 P. |
| Bertice Henry Olmstead | *Walton, N. Y.* | 142 F. |
| Elbert Ellery Orcutt | *West Burke, Vt.* | 203 Crown st. |
| Minott Augur Osborn | *New Haven, Conn.* | 223 Bradley st. |
| Charles Pomeroy Otis | *Andover, Mass.* | 598 P. |
| Howard Earle Palmer | *Branford, Conn.* | Branford |
| Fred Amasa Parker | *Auburn, N. Y.* | 89 Park st. |
| James Lewis Parks, Jr. | *New York City* | 242 York st. |
| Arthur Newbury Parmelee | *Worcester, Mass.* | 159 Elm st. |
| Eli Burton Parsons | *Troy, Pa.* | 586 P. |
| Simon Truby Patterson | *Kittanning, Pa.* | 231 York st. |
| Karlton Goodsell Percy | *Brookline, Mass.* | 250 York st. |
| Hervey Bates Perrin | *Indianapolis, Ind.* | 250 York st. |
| William Augustine Perry | *Tarboro, N. C.* | 362 WH. |
| Robert Edward Pfeiffer | *Columbus, O.* | 74 S. M. |
| Howard Phipps | *New York City* | 238 York st. |
| Effingham Amory Pinto | *Plainfield, N. J.* | 525 P. |
| Livingston Platt | *New York City* | 242 York st. |
| Ernest Marcus Porter | *Auburn, N. Y.* | 89 Park st. |
| George Boardman Potter | *Hartford, Conn.* | 231 York st. |
| Edward Leander Pratt | *Lewiston, Me.* | 250 York st. |
| Robert Hamilton Prentice | *Buffalo, N. Y.* | 577 P. |
| Karl Preston | *Wilmington, Del.* | 217 York st. |
| Edward Jerome Quinlan | *Meriden, Conn.* | Meriden |
| Michael James Quinn | *New Haven, Conn.* | 163 Dewitt st. |
| George Goble Quirk | *Oswego, N. Y.* | 223 York st. |

| | | |
|---|---|---|
| Fleming Hewitt Revell, Jr. | *Evanston, Ill.* | 250 York st. |
| Harrison Pierce Rich | *Red Wing, Minn.* | 176 F. |
| Leonard Richards, Jr. | *New York City* | 250 York st. |
| Harold Wade Riggs | *Hartford, Conn.* | 580 P. |
| Morgan Thomas Riley | *New York City* | 452 FW. |
| Charles Francis Robbins, Jr. | *Indianapolis, Ind.* | 242 York st. |
| Kenneth Lewis Roberts | *Malden, Mass.* | 553 P. |
| Graham Robinson | *Kansas City, Mo.* | 550 P. |
| Howard LeChevalier Roome | *New York City* | 237 York st. |
| Harold Arthur Rosenbaum | *New York City* | 547 P. |
| Milton Alexis Rosenfeld | *New York City* | 237 York st. |
| Benjamin Irving Rouse | *Rochester, N. Y.* | 534 P. |
| Rufus Story Rowland | *Plainfield, N. J.* | 22 College st. |
| Albert Billings Ruddock | *New Haven, Conn.* | 389 Whitney av. |
| Arthur Judd Ryan | *New York City* | 250 York st. |
| Donald Mitchell Ryerson | *Chicago, Ill.* | 250 York st. |
| James Cox Sanderson | *Auburn, N. Y.* | 155 Elm st. |
| Ansley Wilcox Sawyer | *Buffalo, N. Y.* | 203 York st. |
| Clarence Colton Scarborough | *West Hartford, Conn.* | 238 D. |
| Frederick Hirsheal Schmidt | *Le Mars, Iowa* | 585 P. |
| Ambrose Scott | *Portland, Oregon* | 250 York st. |
| George Schaefer Scott | *New York City* | 543 P. |
| Harold Bartlett Scott | *Syracuse, N. Y.* | 231 York st. |
| Walter Hawley Scott | *Syracuse, N. Y.* | 231 York st. |
| Richard Frank Seidensticker | *Meriden, Conn.* | Meriden |
| Clarence William Seymour | *Granby, Conn.* | 143 F. |
| Henry Earl Sheffield | *Cleveland, O.* | 242 York st. |
| George Benedict Sherman | *Cleveland, O.* | 242 York st. |
| Franklin Goldthwaite Sherrill | *Brooklyn, N. Y.* | 22 College st. |
| John Elbert Shirk | *Tipton, Ind.* | 250 York st. |
| Frank Ronald Simmons | *Providence, R. I.* | 250 York st. |
| Lewis Edmond Sisson | *New York City* | 595 P. |
| Malcolm Douglas Sloane | *New York City* | 238 York st. |
| George Washington Small | *New Haven, Conn.* | 237 York st. |
| Charles Paget Smith | *Lebanon, Conn.* | 87 S. M. |
| Everett Robbins Smith | *New Haven, Conn.* | 40 Perkins st. |
| Sidney Albert Smith | *Pittsboro, Miss.* | 302 Wooster st. |
| Frank Butts Smoyer | *Bethlehem, Pa.* | 283 Crown st. |
| George Mark Sneath | *Franklin, Mass.* | 571 P. |
| Donald McLean Somers | *Brooklyn, N. Y.* | 576 P. |
| Gilbert Little Stark | *Saginaw, Mich.* | 250 York st. |
| Edward Burgis Starr | *Cornwall, Conn.* | 140 F. |
| Roswell Hiram Steele | *Brooklyn, N. Y.* | 1076 Chapel st. |
| Henry Harmon Stevens | *Watertown, N. Y.* | 548 P. |
| Elias Robert Stevenson | *New Haven, Conn.* | 31 Farren av. |

| | | |
|---|---|---|
| Henry Bartlett Stimson | *New York City* | 584 P. |
| John Francis Stimson | *Plainfield, N. J.* | 263 L. |
| Albert Franklin Stone | *Bay City, Mich.* | 1076 Chapel st. |
| Arthur Purdy Stout | *New York City* | 242 York st. |
| Alfred Leon Stowe | *Southington, Conn.* | 282 L. |
| McNeil Seymour Stringer | *St. Paul, Minn.* | 591 P. |
| Stuart Robinson Strong | *Portland, Oregon* | 527 P. |
| William George Sullivan | *Indianapolis, Ind.* | 250 York st. |
| Cyril Sumner | *Rochester, N. Y.* | 250 York st. |
| George Lewis Sutherland | *Fort Plain, N. Y.* | 239 Bradley st. |
| Edward Francis Sweeney | *Naugatuck, Conn.* | 521 P. |
| Stanley Adams Sweet | *Yonkers, N. Y.* | 231 York st. |
| Walbridge Smith Taft | *New York City* | 238 York st. |
| Senjiro Takagi | *Yokohama, Japan* | 249 Crown st. |
| David Esson Taylor, Jr. | *Scranton, Pa.* | 242 York st. |
| Stephen Dows Thaw | *Pittsburg, Pa.* | 468 FW. |
| Frederick Herrick Thomas | *Morristown, N. J.* | 242 York st. |
| Gaylord Thomas | *Chicago, Ill.* | 250 York st. |
| Hubert Fletcher Thomas | *Denver, Colo.* | 250 York st. |
| Guy Van Zandt Thompson | *Cincinnati, O.* | 554 P. |
| Orlando Lewis Thompson | *Auburn, N. Y.* | 162 F. |
| Roy Smith Thompson | *Topeka, Kans.* | 300 W. |
| Lauren Scott Thomson | *Bovina Centre, N. Y.* | 142 F. |
| Montgomery Hunt Throop | *Albany, N. Y.* | 228 Whalley av. |
| Charles Frederick Todd | *Saint Stephen, N. B.* | 250 York st. |
| Douglas Jay Torrey | *Scranton, Pa.* | 467 FW. |
| Richard Rodermond Townsend | *Pittsburg, Pa.* | 469 FW. |
| Ernest Bell Tracy | *St. Louis, Mo.* | 313 York st. |
| Roger Culver Tredwell | *Brooklyn, N. Y.* | 250 York st. |
| Calvin Truesdale | *Greenwich, Conn.* | 250 York st. |
| Thomas Allen Tully | *Staplcton, N. Y.* | 177 F. |
| John Screven Turnbull | *New York City* | 237 York st. |
| George Coolidge Tuttle | *New York City* | 242 York st. |
| Reuel Lincoln Twitchell | *Hartford, Conn.* | 552 P. |
| William Finney Tyler | *Seattle, Wash.* | 145 Franklin st. |
| Allan Eugene Updegraff | *Chicago, Ill.* | 586 P. |
| John Adolf Vietor | *New York City* | 1076 Chapel st. |
| Arthur Hill Vincent | *Saginaw, Mich.* | 250 York st. |
| Daniel McNichol Wade | *Philadelphia, Pa.* | 536 P. |
| Herbert Hamilton Wagenhals | *Fort Wayne, Ind.* | 250 York st. |
| Wayne Winslow Wait | *Gloversville, N. Y.* | 587 P. |
| Robert Lambert Wallace | *Perry, N. Y.* | 470 FW. |
| Henry Freeman Walradt | *Needham, Mass.* | 281 L. |
| Henry Stevenson Washburn | *Oyster Bay, L. I., N. Y.* | 78 S. M. |
| Ira Davenport Waterman | *Detroit, Mich.* | 9 Library st. |

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|---|---|---|
| Julius Edward Watterson | *Cleveland, O.* | 231 York st. |
| James Watson Webb | *New York City* | 238 York st. |
| Ralph Eugene Weber | *Waterville, N. Y.* | 404 B. |
| Benjamin Webster | *Waterbury, Conn.* | 223 D. |
| George Harold Weiss | *Schuylkill Haven, Pa.* | 213 York st. |
| Donald Breckenridge Wells | *Hartford, Conn.* | 594 P. |
| Harold Sherman Wells | *Scranton, Pa.* | 9 Library st. |
| Kenyon Deupree Wells | *Vicksburg, Miss.* | 236 Crown st. |
| Thomas Edward Welsh | *Danbury, Conn.* | 329 W. |
| Cortlandt Stuyvesant Wheeler | *Utica, N. Y.* | 242 York st. |
| Ernest Cousins Wheeler | *Norwalk, Conn.* | 248 L. |
| Robert Campbell Wheeler | *Chicago, Ill.* | 250 York st. |
| Henry Franklin Whitcomb, Jr. | *Milwaukee, Wisc.* | 22 College st. |
| Edwin White | *St.Paul, Minn.* | 22 College st. |
| John Alan White | *Walton, N. Y.* | 89 S. M. |
| Robert George White | *Hartford, Conn.* | 529 P. |
| Lewis Bliss Whittemore | *Hartford, Conn.* | 541 P. |
| William Sheldon Whittlesey | *New Haven, Conn.* | 135 Wall st. |
| John Middagh Willard | *New York City* | 22 College st. |
| Arthur Putnam Williamson | *Cleveland, O.* | 250 York st. |
| George Wilshire | *Cleveland, O.* | 250 York st. |
| Frank Eugene Wilson | *Clinton, Iowa* | 22 College st. |
| Milton Wilson | *Chicago, Ill.* | 254 York st. |
| Wilbur George Wilson | *Rutherford, Tenn.* | 262 L. |
| Frederick Hampden Winston | *Chicago, Ill.* | 242 York st. |
| Lispenard Stewart Witherbee | *New York City* | 248 York st. |
| Walter Bertram Wolf | *Chicago, Ill.* | 237 York st. |
| Brainard Hardy Woodward | *Cortland, N. Y.* | 276 Orange st. |
| Heathcote Muirson Woolsey | *New Haven, Conn.* | 238 York st. |
| Henry Haight Wright | *Detroit, Mich.* | 557 P. |
| Selah Howell Wright | *Sandy Hook, Conn.* | 258 L. |
| Thomas Goddard Wright, Jr. | *Phelps, N. Y.* | 723 Elm st. |
| William Francis Wrynn | *Wallingford, Conn.* | Wallingford |
| Russell Jewell Young | *Hartford, Conn.* | 1076 Chapel st. |

FRESHMEN, 430

## SUMMARY

| | |
|---|---|
| SENIORS | 285 |
| JUNIORS | 267 |
| SOPHOMORES | 269 |
| FRESHMEN | 430 |
| | 1251 |

# SENIOR APPOINTMENTS

## Class of 1903

### PHILOSOPHICAL ORATIONS

Menter Bradley Terrill
Hugh Rankin

Eliot Round Clark
Donald Bradford MacLane
George Sidney Leach
William Sperry Searles
Harold Terry Clark
Fred Brown Utley
Robert Seneca Smith
David Uzal Cory, Jr.
Robert Porter Keep, Jr.
George Edward Woodbine
Roland George Dwight Richardson
Axel Ebenezer Vestling
Edward Herbert Cameron
John Dougan Rea
Avard Longley Bishop
Warren Merrill Steele
Donald John Cowling

### HIGH ORATIONS

Luther Anderson
Pemberton Berman
Harry Henderson Clark
Stanley Clifford Dukeshire
Joseph Fairbanks
Alan Fox
George Burton Gilbert
Willis Elbridge Goodhue
Jerome Sayles Hess
Herbert Cassius Kelly
Francis Stanley Kent
Andrew Duncan McIntosh
Douglas Maxwell Moffat
Charles Seymour Parsons
Harold Frank Sheets
William Hendrickson Taylor
Harry Brown VanDeventer
Walter Bertrand Walker
Arthur Allen Ward
Antonio Johnston Waring
Bradford Webster
Howard Spencer Woodward

### ORATIONS

Charles Tubbs Andrews
Theodore Andrews
Josiah Henry Benton
Samuel Mason Brereton
Louis Garfield Coleman
Hiram Walter Cramer
Robert Emmet Digney
Herbert Lathe Drury
William Ferguson
Mansfield Ferry
Edward Harold Fitzgerald
Chauncey Jerome Hamlin
William Loomis Harmount
William Lorne Irvine
Nicholas Ridgely Jones
Arthur Channing Long
Daniel Lawrence Joseph O'Neil
William Lealie Patterson
Oscar Columbus Payne
Howard Albert Plummer
Cleveland Rogers
Joseph Martin Skrable
Frederic Randolph Stauffer
Paul Bailey Sweet
Donald Thompson
Edwin Vivian Thompson
George Rexford Tillson
Freeman Ward
Orion James Willis

DISSERTATIONS

Morton Atwater
Robert Lounsbury Black
Arthur George Blaisdell
Merit Lancaster Davidson
Willard Joseph Denno
John Eliason
Nickolaus Louis Engelhardt
George Barnett Everts
Edward Josiah Failing
Albert Hileman
Lawrence Augustus Howard
Roy Arthur Hunt
Walter Chafey Moodie
Arthur Daniel Mullen
John McAllister Stevenson, Jr.
Ralph Griffiths Stillman
Jeremiah Barrett Sullivan
William Kenney Terriberry
George Jameson Thomson
James Reynolds Wait
Arthur Woodward Warner
Howard Sage White

FIRST DISPUTES

George Stanleigh Arnold
Thorne Baker
James Milton Betts
Alfred Hoyt Bill
Robert Grey Bushong
Walter Landon Douglass
Robert Hall Ewell
Herbert Gouverneur Greene
Samuel Frank Hedges
Donald Kent Johnston
Charles Myron Latimer
Charles Hammond L'Hommedieu
Willard Armstrong Lyon
John Marshall
Ralph Hill Melcer
John Barrow Motter
Herman Justus Thorstenberg
Edward Perry Townsend
Edward Perry Truett
David Benjamin Updegraff
Raymond William Walker

SECOND DISPUTES

Douglass Henry Atwill
Claude Garfield Bennethum
William Alexander Blount, Jr.
Ralph Willis Bumstead
James Noël Howard Campbell
Robert Keep Clark
Walter Guthrie Collins
Frank Cameron Gilbert
William White Gleason
John George Haas, Jr.
Harry Friedgen Hartjen
Ell Ray Henry
Norman Churchill Hull
Joseph Newcomb Kinney, Jr.
Lucian Swift Kirtland
William Clark Langley
George Everson Leonard
Charles William Littlefield
Henry Edmund Mills
Ralph Howard Nesmith
William Penn Nixon, Jr.
Alfred Trecartin Ogden
Horace Burton Pomeroy
John Joseph Reilly
George Huntington Richards
Arthur Jesse Rosenthal
Harold Merriam Sawyer
George Arthur Smith
Levings Hooker Somers
Harry Root Stern
William Roy Stuart
Douglass Van Dyke
Edward Franklin Webster

FIRST COLLOQUIES

William Brown Arvine
Charles Crooke Auchincloss
Charles Russell Auchincloss
Joseph Lewi Bendell
Allen Cleveland Bragaw
Arthur Morris Collins
Ephraim Clarence Cushman
Harry Wilfred DuPuy
Clive Livingston DuVal
Morton Cross Fitch
Pierrepont Beers Foster
Edward Lathrop Gillespie
Henry Chandler Holt
Thomas Hooker, Jr.
Eugene Allerton Kingman
Paul Lindenberg
Harvey Childs McClintock
Augustus Kountze Oliver
Byron Ainsworth Pierce
Harry Albert Rightmire
Ziegler Sargent
Reeve Schley
Brockholst Mathewson Smith
Harlan Couch Taylor
Ralph Huntington Thacher
Arsene LeSeigneur Trenholm
Abraham Tulin
Ralph Benford Wakefield
William Durrie Waldron
Irving Henry Warner
William Otis White

SECOND COLLOQUIES

Charles Roberts Aldrich
Francis Johonnot Oliver Alsop
Hugh Archbald
Burton John Baldwin
Charles Arnold Brady
Stephen Carlton Clark
Philip King Condict
Erastus Corning
Earle Rosman Crowe
*Thomas Henry Curran
Kenneth William Curtis
John Martin Dreisbach
John Ross Freeman
William Frew
Arnold Samuel Furst
Julius Gans
Charles Douglass Green
Brower Hewitt
Harry Oliver Hofstad
William Poyntell Johnston
James Barry Kilburn
Theodore Twyford Lane
Irving McDonald
James Patrick McDonough
Henry Coit MacLean
Paul Ford Mann
Frank Wood Moore
Almer Mayo Newhall
William Robert Orthwein
George French Porter
James Osborne Putnam, 2d
James William Reynolds
Henry Sanford
Stuart Bruen Sutphin
Ernest Shelton VanTassel
George Unangst Wenner
Edwin Reynolds Whitcomb
John Richards White
Wilson Gordon Wing

* Deceased.

## HONORS IN SPECIAL STUDIES

CLASS OF 1903

*In the Classical Languages and Literatures:*
Herbert Cassius Kelly

*In English:*
Charles Roberts Aldrich
Lawrence Augustus Howard
Lucian Swift Kirtland

*In Mathematics:*
Roland George Dwight Richardson

*In the Physical Sciences:*
Eliot Round Clark
Arthur Channing Long

*In Philosophy:*
Edward Herbert Cameron
Warren Merrill Steele

*In History:*
Harold Merriam Sawyer

*In the Social Sciences:*
Josiah Henry Benton
Avard Longley Bishop
Harry Henderson Clark
Hugh Rankin
John Joseph Reilly
Menter Bradley Terrill
Walter Bertrand Walker
Willis Gordon Wing

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## JUNIOR APPOINTMENTS

CLASS OF 1905

PHILOSOPHICAL ORATIONS

JOHN ELDRIDGE BENTLEY
WILLIS ARTHUR COUNTRYMAN, JR.
ALBERT WALLACE HULL
ARTHUR PACKER MCKINSTRY
JOHN CARROLL SLADE
RAYMOND HENRY WHITE
ARTHUR ROBINSON WILLIAMS

HIGH ORATIONS

Edward Johnson Barber
Charles Stone Bulkley
Paul Curts
John Bellows DeForest
James Lawrence Houghteling, Jr.
Walter Dennis Myers
John Barker Waite
Harry Clinton York
Albert Henry Yost

ORATIONS

Herbert Nathaniel Arnstein
Charles Hubbell Bidwell
Arthur Willis Blackman
Charles Rhein Essick
Jerome Albert Goldman
George Burton Hotchkiss
Albert Steele McCullough
Clifford Harris Peek
Lawrence Alson Pomeroy
George Roberts
Chauncey Milton Sincerbeaux
Amos Bateman Thatcher
Wallace Alvin Wilson

DISSERTATIONS

Albert Merrill Coit
Irving Nicholas Countryman
Bainbridge Cowell
Boyd Graphic Curts
Frederick Ferriss Dodd
Clement Snow Jacobus
Aaron Riley Merritt
Elmer Belding Myers
Walter Hobart Palmer
James Grafton Rogers
William Thomas Snider
Edward Seymour Stringer
Sidney Edward Sweet
Arthur Irving Taft
Elmer Willis VanBrunt
Cyrus French Wicker

FIRST DISPUTES

Harry Hall Atwater
William Marvin Barlow
Raymond Augustus Beardslee
James Beardsley Brinsmade
Francis Buckley
Howard Lehman Goodhart
Edward Francis Hayes
Hugh Horatio Henry
Aubrey Milton Holter
Daniel Raymond Noyes
Maurice Henry Pease
Eugene James Phillips
Bryant Hawk Prentice
Frank Stanley Rickcords
Robert George Sanford
Henry Richard Schenker
Joseph Seronde
Roger Henry Wolcott

SECOND DISPUTES

Thomas Bertram Anderson
Horace White Armstrong
Arthur Howe Bradford
William Thompson Briggs
Edward Little Brooks
Paul Morgan Butterfield
Carl Herman Carroll
Roland Baldwin Coe
Urban Cronan
William Theodore Darby
William Dwight Dean
Harold Albert Fisher
Joseph Marion Forsyth
Harry Ellsworth Fowler
Caryl Smith Harris
Allen Bronson Henry
Gilbert Kinney
Russell Perry Morrison
Charles Washburn Nichols
Martin Kellogg Pasco, Jr.
Richard Eskine Simpson
Henry Blanchard Spaulding
Edwin Sheldon Whitehouse
Palmer York

FIRST COLLOQUIES

Runyon Colie
Walter Bannister Congdon
Louis Emile Coté
David Edward Dangler
Edward Montgomery Davidson
William Leonard Dougherty
Henry Ernst Haws
George Stanley Hendel
Arthur White Hildreth
James Joseph Hogan
Willard Curtis Hyatt
William Johnson Jack
William Henry Kennedy
Charles Ferdinand Kerrigan
Guy Carlton Lamson
Elbert Squire Latimer
Samuel Livingston Mather
Chester Trenholm Neal
Harry Levin Roeschlaub Nickerson
Howard Palmer
Earle Buckingham Seeley
Alfred Lyon Spencer
Enoch Vine Stoddard, Jr.
Henry White
Luther Kimbell Zabriskie

SECOND COLLOQUIES

Albert Aston
Harold Bruff
William Julius Champion, Jr.
Francis Quinn Cronin
Pierpont VanDerveer Davis
Jesse Vincent Devine
Henry Groff Dodge
Leonard Martin Frey
Stanleigh Pohly Friedman
Alfred Ernest Hamill
George Mills Harris
Nelson Smiley Hastings
Roy Willet Hemingway
Douglas Meade Hoffecker
Buell Hollister
Morton Albertson Howard
Argall LeRoy Hull
Edward Boltwood Hull
Charles Sheldon Judd
Charles Augustus LaMont
Stewart Alfred LeBlanc
Walter Raymond McCoy
Charles Dexter Morris
Levi Fatzinger Noble
Charles Reinold Noyes
Abel Bennett Palmerton
Gardner Richardson
Stanley MacDonald Smith
William Knickerbocker Van-Reypen, Jr.
Ernest Leonard Visanska

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## HONORS IN THE STUDIES OF FRESHMAN YEAR

CLASS OF 1906

Raymond Mills Anderson
Clarence Edward Andrews
Harry Beal
John Borden
Timothy Lincoln Bouscaren
Alfred Brand
James Beebee Brinsmade
Donald Bruce
Robert Lincoln Clark
Herbert Hallock Cutler
Harold Edwin Dimock
John Hampden Dougherty, Jr.
Francis Bolton Elwell
James Linwood Fawley
Samuel Field, Jr.
William Walker Gibson
Lemuel Whittington Gorham
Peter Gow
Harold Eberhart Hammond
Harold Wade Headley
Edmund Grant Howe
Clarence Seymour Hutt
Harold Burton Jamison
Harold Fowler Larkin
Henry Wells Lawrence, Jr.
William Pitt McCune
Stanley Robinson MacLane
Barrington Moore
Raymond William Osborne
William Goodwin Robinson
Everitt Anthony Sherwood
William Lord Squire
Faron Nelson Wakefield
James Harold Wallis
Edmund Leon Warren
Arthur Clarence Williamson
Alexander James Wood
William Hogencamp Wurts
Bayard Daniel York

## UNDERGRADUATE SCHOLARS OF THE HOUSE YALE COLLEGE, 1903-1904:

BRISTED Scholar—Class of 1904, CLARENCE W. MENDELL.

WOOLSEY Scholars—Class of 1904, FREDERICK E. PIERCE; Class of 1905, JOHN E. BENTLEY; Class of 1906, STANLEY R. MACLANE.

HURLBUT Scholar—Class of 1906, WILLIAM L. SQUIRE.

THIRD FRESHMAN Scholar—Class of 1906, PETER GOW.

SCOTT HURTT Scholars—Class of 1904, NEWELL JENNINGS; Class of 1905, JOHN C. SLADE.

THOMAS GLASBY WATERMAN Scholars—Class of 1904, CLARENCE W. MENDELL and FREDERICK E. PIERCE.

DANIEL LORD Scholar—Class of 1904, FRED M. MAXWELL.

JOHN BENNETTO Scholars—Class of 1904, LAWRENCE MASON; Class of 1905, JAMES J. HOGAN.

ROBERT CALLENDER Scholar—Class of 1905, ARTHUR P. MCKINSTRY.

LEARNED Scholars—Class of 1905, ALBERT W. HULL; Class of 1906, PETER GOW.

ALBERT BARNES PALMER Scholar—Class of 1904, HENRY S. HUNTINGTON, JR.

JOHN J. COX Scholar—Class of 1905, RAYMOND H. WHITE.

## UNIVERSITY PRIZES AWARDED JUNE, 1903:

BENNETT PRIZE—Class of 1903, Hugh Rankin.

COBDEN CLUB MEDAL—Class of 1903, Menter B. Terrill.

COOK PRIZE IN POETRY—Class of 1904, Frederick E. Pierce.

## PRIZES AWARDED IN YALE COLLEGE, 1902-1903:

DEFOREST PRIZE MEDAL—Class of 1903, Harry R. Stern.

TOWNSEND PREMIUMS—Class of 1903, Allen C. Bragaw, Harold T. Clark, Joseph Fairbanks, Douglas M. Moffat, and David B. Updegraff.

WINTHROP PRIZES—Class of 1904, 1st Prize, Edwin Clapp; 2d Prize, Francis E. Howland.

JOHN HUBBARD CURTIS PRIZES—Class of 1903, Pemberton Berman; Class of 1904, Frederick E. Pierce.

HENRY JAMES TENEYCK PRIZES (for the Junior Exhibition)—Class of 1904, 1st Prize, William Pickens; 2d Prizes, William H. Durham, Stevenson H. Evans, Thomas H. Kirkland, and Lansing P. Reed; 3d Prizes, Thomas R. Gaines, Alexander Gordon, Chauncey C. Kennedy, Frederick E. Pierce, and Aaron Wittstein.

THACHER PRIZES—Class of 1903, Harry H. Clark, Robert H. Ewell, and Alan Fox.

SCOTT PRIZE IN GERMAN—Class of 1904, Arthur B. Recknagel.

SCOTT PRIZE IN FRENCH—Class of 1904, Otis M. Bigelow.

THE LUCIUS F. ROBINSON PRIZES IN LATIN—Class of 1903, 1st Prize, Harry A. Van Deventer; 3d Prize, Samuel M. Brereton.—Class of 1905, 1st Prize, Raymond H. White; 2d Prize, Arthur P. McKinstry; 3d Prize, Albert W. Hull.

C. WYLLIS BETTS PRIZE—Class of 1905, William F. Peter.

HONORS IN ENGLISH COMPOSITION—Class of 1905, Willis A. Countryman, Jr., Bainbridge Cowell, Lowell C. Frost, George B. Hotchkiss, Charles F. Kerrigan, Arthur P. McKinstry, Charles W. Nichols, William F. Peter, 2d, John C. Slade, John B. Waite, Raymond H. White.

ELOCUTION PRIZES—Class of 1905, in Recitation, Cyrus F. Wicker; in Declamation, Aaron R. Merritt.

BENJAMIN F. BARGE MATHEMATICAL PRIZES—Class of 1905, 1st Prizes, John E. Bentley, Albert W. Hull, and Arthur R. Williams; 2d Prize, Wallace A. Wilson; 3d Prize, Albert S. McCullough.—Class of 1906, 1st Prize, Donald Bruce; 2d Prizes, John B. Brinsmade and James H. Wallis; 3d Prize, William L. Squire.

MCLAUGHLIN PRIZES—Class of 1906, 1st Prize, William L. Squire; 2d Prize, William G. Robinson.

WINSTON TROWBRIDGE TOWNSEND PRIZES—Class of 1906, Frederick H. Beach, William H. Wurts, Bayard D. York.

BERKELEY PREMIUMS IN LATIN COMPOSITION—Class of 1906, 1st Grade, James L. Fawley, William W. Gibson, Peter Gow, Stanley R. MacLane, and Edward C. Seward; 2d Grade, John H. Dougherty, Harold F. Larkin, William L. Squire, Edmund L. Warren, and William H. Wurts.

HUGH CHAMBERLAIN GREEK PRIZE—Class of 1907, Philip Lefèvre Morrison, who was prepared at the Hopkins Grammar School, New Haven; with honorable mention of Herbert Lawrence Malcolm, who was prepared at the Hillhouse High School, New Haven; Charles Pomeroy Otis, who was prepared at Phillips Academy, Andover; Richard Douglas Davis, Jr., who was prepared at the Ashland High School and Phillips Academy, Andover; and Frederick Trowbridge Kelsey, who was prepared at Carteret Academy, Orange, N. J.

SAMUEL HENRY GALPIN LATIN PRIZE—Class of 1907, William Henry Goodwin, who was prepared at the Hartford Public High School; with honorable mention of James Madison Kennedy, who was prepared at the Hyde Park (Ill.) High School and the Hill School, Pottstown, Pa.; and William Sheldon Whittlesey, who was prepared at the Hillhouse High School, New Haven.

THE CHICAGO SCHOLARSHIP—Class of 1907, Howard Francis Bishop.

THE PLAINFIELD PRIZE—Class of 1907, Gordon Wilson Abbott.

THE KANSAS CITY PRIZE—Class of 1907, Robert Middlebrook, Jr.

# EXAMINATION PAPERS

## GIVEN AT THE EXAMINATION FOR ADMISSION

June, 1903

### OVID

[Time allowed, 45 minutes.]

For translation at sight:

Hic hominum cunctos ingenti corpore praestans
Iapetionides Atlas fuit. Vltima tellus
Rege sub hoc, et pontus erat, qui Solis anhelis
Aequora subdit equis, et fessos excipit axes.
Mille greges illi, totidemque armenta per herbas
Errabant: et humum vicinia nulla premebant.
Arboreae frondes, auro radiante virentes
Ex auro ramos, ex auro poma tegebant.

### VERGIL

[Time allowed, one hour.]

1. Copy and divide into feet, indicating the caesura:

Tum pater Aeneas, Vestra, inquit, munera vobis
Certa manent, pueri, et palmam movet ordine nemo;
Me liceat casus miserari insontis amici.
Sic fatus tergum Gaetuli inmane leonis
Dat Salio, villis onerosum atque unguibus aureis.

Give rules for the quantity of the final syllable of *munera* (348), *movet* (349), *me* (350), *amici* (350); and of the penult of *Aeneas* (348), *liceat* (350), *miserari* (350), *unguibus* (352).

2. Translate:

Vix ea fatus eram; tremere omnia visa repente,
Liminaque laurusque dei, totusque moveri
Mons circum, et mugire adytis cortina reclusis.
Submissi petimus terram, et vox fertur ad auris:
Dardanidae duri, quae vos a stirpe parentum
Prima tulit tellus, eadem vos ubere laeto
Accipiet reduces. Antiquam exquirite matrem.
Hic domus Aeneae cunctis dominabitur oris,
Et nati natorum, et qui nascentur ab illis.

What is the quantity of *—que* in line 91? What is the proper meaning of *mugire* (92)? What land was meant by *tellus* (95)? What is the meaning of *ubere laeto* (95)?

3. Translate:

Olli sic breviter fata est longaeva sacerdos:
Anchisa generate, deum certissima proles,
Cocyti stagna alta vides Stygiamque paludem,
Di cuius iurare timent et fallere numen.
Haec omnis, quam cernis, inops inhumataque turba est;
Portitor ille Charon; hi, quos vehit unda, sepulti.
Nec ripas datur horrendas et rauca fluenta
Transportare prius, quam sedibus ossa quierunt.

What is *olli* (321) and why does Vergil use this form? Who was the *sacerdos* (321)? Explain the peculiar construction of 324. What belief is alluded to in 327-8?

4. What Roman poet had treated the Aeneas legend before Vergil? Was there a foundation in fact for the story? Why did Vergil select it for the subject of his epic poem?

[Omit either 5 or 6.]

5. Translate:

At Caesar, triplici invectus Romana triumpho
Moenia, dis Italis votum inmortale sacrabat,
Maxuma ter centum totam delubra per Urbem.
Laetitia ludisque viae plausuque fremebant;
Omnibus in templis matrum chorus, omnibus arae;
Ante aras terram caesi stravere iuvenci.
Ipse, sedens niveo candentis limine Phoebi,
Dona recognoscit populorum aptatque superbis
Postibus; incedunt victae longo ordine gentes,
Quam variae linguis, habitu tam vestis et armis.

Who is *Caesar* (714) and what battle is here referred to?

6. Translate:

LYCIDAS. MOERIS.

*L.* Quo te, Moeri, pedes? an, quo via ducit, in urbem?
*M.* O Lycida, vivi pervenimus, advena nostri,
Quod numquam veriti sumus, ut possessor agelli
Diceret: Haec mea sunt; veteres migrate coloni.
Nunc victi, tristes, quoniam Fors omnia versat,
Hos illi—quod nec vertat bene—mittimus haedos.
*L.* Certe equidem audieram, qua se subducere colles
Incipiunt, mollique iugum demittere clivo,
Usque ad aquam et veteris, iam fracta cacumina, fagos
Omnia carminibus vestrum servasse Menalcan.

To what event in Vergil's life does this passage refer?

## CICERO

[Time allowed, 45 minutes.]

1. Ego multa tacui, multa pertuli, multa concessi, multa meo quodam dolore in vestro timore sanavi. Nunc si hunc exitum consulatus mei di immortales esse voluerunt, ut vos populumque Romanum ex caede miserrima, coniuges liberosque vestros virginesque Vestales ex acerbissima vexatione, templa atque delubra, hanc pulcherrimam patriam omnium nostrum ex foedissima flamma, totam Italiam ex bello et vastitate eriperem, quaecumque mihi uni proponetur fortuna, subeatur. Etenim si P. Lentulus suum nomen inductus a vatibus fatale ad perniciem rei publicae fore putavit, cur ego non laetor meum consulatum ad salutem populi Romani prope fatalem exstitisse?

Did Cicero suffer any misfortune because of the part he took in suppressing the conspiracy? What is referred to in *nomen . . . fatale* (lines 8, 9)?

2. Sed pleni sunt omnes libri, plenae sapientium voces, plena exemplorum vetustas: quae iacerent in tenebris omnia, nisi litterarum lumen accederet. Quam multas nobis imagines non solum ad intuendum, verum etiam ad imitandum fortissimorum virorum expressas scriptores et Graeci et Latini reliquerunt, quas ego mihi semper in administranda re publica proponens animum et mentem meam ipsa cogitatione hominum excellentium conformabam.

In what book existing in his time could Cicero find inspiring accounts of the services of Roman statesmen?

3. Translate any *one* of the following passages:

(*a*) Quem ad modum igitur eum dies non fefellit? Dixi equidem modo. Dictatoris Lanuvini stata sacrificia nosse negotii nihil erat. Vidit necesse esse Miloni proficisci Lanuvium illo ipso quo est profectus die. Itaque antevertit. At quo die? quo, ut ante dixi, fuit insanissima contio ab ipsius mercennario tribuno plebis concitata: quem diem ille, quam contionem, quos clamores, nisi ad cogitatum facinus approperaret, numquam reliquisset. Ergo illi ne causa quidem itineris, etiam causa manendi: Miloni manendi nulla facultas, exeundi non causa solum sed etiam necessitas fuit. Quid? si, ut ille scivit, Milonem fore eo die in via, sic Clodium Milo ne suspicari quidem potuit?

(*b*) Deinde ex ceteris ordinibus homines gnavi atque industrii partim ipsi in Asia negotiantur, quibus vos absentibus consulere debetis, partim eorum in ea provincia pecunias magnas collocatas habent. Est igitur humanitatis vestrae magnum numerum eorum

civium calamitate prohibere, sapientiae videre multorum civium calamitatem a re publica seiunctam esse non posse. Etenim primum illud parvi refert nos publicanis amissis vectgalia postea victoria recuperare neque enim iisdem redimendi facultas erit propter calamitatem neque aliis voluntas propter timorem.

(*c*) Atque hoc C. Caesaris iudicium, patres conscripti, quam late pateat attendite: omnes enim, qui ad illa arma fato sumus nescio quo rei publicae misero funestoque compulsi, etsi aliqua culpa tenemur erroris humani, at scelere certe liberati sumus. Nam cum M. Marcellum deprecantibus vobis rei publicae conservavit, me et mihi et item rei publicae, nullo deprecante, reliquos amplissimos viros et sibi ipsos et patriae reddidit: quorum et frequentiam et dignitatem hoc ipso in consessu videtis, non ille hostes induxit in curiam, sed iudicavit a plerisque ignoratione potius et falso atque inani metu quam cupiditate aut crudelitate bellum esse susceptum.

(*d*) Atque utinam his omnibus abstergere fletum sententiis nostris consultisque possemus vel aliqua talis iis adhiberi publice posset oratio, qua deponerent maerorem atque luctum gauderentque potius, cum multa et varia impenderent hominibus genera mortis, id genus, quod esset pulcherrimum, suis obtigisse eosque nec inhumatos esse nec desertos, quod tamen ipsum pro patria non miserandum putatur, nec dispersis bustis humili sepultura crematos, sed contectos publicis operibus atque muneribus eaque exstructione, quae sit ad memorian aeternitatis ara Virtutis.

(*e*) At minus habeo virium, quam vestrum utervis. Ne vos quidem T. Pontii centurionis viris habetis: num idcirco est ille praestantior? Moderatio modo virium adsit, et tantum, quantum potest quisque, nitatur; ne ille non magno desiderio tenebitur virium. Olympiae per stadium ingressus esse Milo dicitur, cum umeris sustineret bovem. Utrum igitur has corporis an Pythagorae tibi malis viris ingenii dari? Denique isto bono utare, dum adsit; cum absit, ne requiras; nisi forte adulescentes pueritiam, paulum aetate progressi adulescentiam debent requirere.

(*f*) Et litteris multorum et sermone omnium perfertur ad me incredibilem tuam virtutem et fortitudinem esse teque nec animi neque corporis laboribus defatigari. Me miserum! te ista virtute, fide, probitate, humanitate in tantas aerumnas propter me incidisse, Tulliolamque nostram, ex quo patre tantas voluptates capiebat, ex eo tantos percipere luctus! Nam quid ego de Cicerone dicam? qui cum primum sapere coepit, acerbissimos dolores miseriasque percepit. Quae si, tu ut scribis, fato facta putarem, ferrem paulo facilius; sed omnia sunt mea culpa commissa, qui ab iis me amari putabam, qui invidebant, eos non sequebar, qui petebant.

## CAESAR AND NEPOS

[Time allowed, 45 minutes.]

1. Translate:

Cum iam muro turres appropinquassent, ex captivis Caesar cognovit Vercingetorigem, consumpto pabulo, castra movisse propius Avaricum, atque ipsum cum equitatu expeditisque, qui inter equites proeliari consuessent, insidiarum causa eo profectum, quo nostros postero die pabulatum venturos arbitraretur. Quibus rebus cognitis, media nocte silentio profectus ad hostium castra mane pervenit. Illi, celeriter per exploratores adventu Caesaris cognito, impedimenta sua in artiores silvas abdiderunt, copias omnes in loco edito atque aperto instruxerunt. Qua re nuntiata, Caesar celeriter sarcinas conferri, arma expediri iussit.

2. Translate:

Interim conflata sunt illa bella, quae ad internicionem post Alexandri mortem gesta sunt, omnesque concurrerunt ad Perdiccam opprimendum. Quem etsi infirmum videbat, quod unus omnibus resistere cogebatur, tamen amicum non deseruit neque salutis quam fidei fuit cupidior. Praefecerat hunc Perdiccas ei parti Asiae, quae inter Taurum montem iacet atque Hellespontum, et illum unum opposuerat Europaeis adversariis; ipse Aegyptum oppugnatum adversus Ptolemaeum erat profectus.

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## LATIN GRAMMAR

[Time allowed, one hour.]

Do not write a translation of the passage. Mark the quantity of the penult of all Latin words used in answering questions 1 and 2.

Sed ea, quae exaudio, patres conscripti, dissimulare non possum. Iaciuntur enim voces, quae perveniunt ad aures meas, eorum, qui vereri videntur ut habeam satis praesidii ad ea, quae vos statueritis hodierno die, transigunda. Omnia et provisa et parata et constituta sunt, patres conscripti, cum mea summa cura atque diligentia tum etiam multo maiore populi Romani ad summum imperium retinendum et ad communes fortunas conservandas voluntate. Omnes adsunt omnium ordinum homines, omnium denique aetatum: plenum est forum, plena templa circum forum, pleni omnes aditus huius loci ac templi. Causa est enim post urbem conditam haec inventa sola in qua omnes sentirent unum atque idem praeter eos, qui cum sibi viderent esse pereundum, cum omnibus potius quam soli perire voluerunt.

1. Inflect *voces* (line 2), *maiore* (line 6), *idem* (line 11), *sibi* (line 12).

2. Give the principal parts and the mode, tense, voice, person and number of *exaudio* (line 1), *statueritis* (line 3), *conditam* (line 10), *sentirent* (line 11). Inflect *voluerunt* (line 13), in the imperfect indicative, the imperfect subjunctive and give the participles and infinitives.

3. Explain the case-construction of *eorum* (line 2), *praesidii* (line 3), *multo* (line 6), *idem* (line 11), *omnibus* (line 12).

4. Explain the mode of *habeam* (line 3), *statueritis* (line 3), *sentirent* (line 11), *viderent* (line 12), and all the gerund or gerundive constructions in the passage.

## LATIN COMPOSITION

[Time allowed, 30 minutes.]

Since you have now captured the wicked leaders of this dangerous and nefarious conspiracy you may (*debere*) consider all the hopes, all the sources of Catiline to be ruined (*concidere*). For I drove him from the city because I knew that he alone was to be feared, but only as long as he was within the walls of the city. He, indeed, knew everything; he selected apt men and persuaded them to perform the most shameful deeds. When he had conceived (*capere*) a plan his tongue and his hands were always ready to accomplish it. When, therefore, I drove him from the city into the camp I relieved you from the greatest burden and anxiety, so that you might live in peace. For if Catiline had remained in the city we should always have had to fight against him. But since he is gone, there is no reason why we should fear either Lentulus or Cassius or Cethegus.

## ROMAN HISTORY

[Time allowed, 45 minutes.]

N. B.—It is not expected that any one student will answer all the questions set. The paper must meet the wants of candidates prepared in many different ways. The quality of what is written, rather than its quantity, will be decisive. The second group of questions under each head may be regarded as optional.

I. Give the time, cause, manner, and general result and significance of Rome's siege and capture of Veii.

What legends grew up about the struggle? When did the Etruscans again become dangerous to Rome? What evidences are there of Etruscan supremacy in Latium?

II. Who were the parties contending in the Latin War? What was the issue between them? When did the struggle take place, what brought it on, and what were its results for Rome and Latium?

What were the relations of a *municipium* to Rome? of a maritime colony? from what maritime colony did the *rostra* in the Roman forum come?

III. What did the plebeians, in their struggle with the patricians, gain by the provisions of the Licinian-Sextian law (367 B. C.), and how did Rome's internal conflicts prepare her for foreign conquests?

How did the office of military tribune differ from that of consul? What were the duties and powers of the censors?

IV. When and how was Rome first induced to attempt conquests in Asia Minor? What were the results of the battle of Magnesia for Asia Minor and Hannibal?

When and how did Asia Minor fall to Rome? What provinces had Rome in 133 B. C.?

V. How did Sulla, as dictator, increase the powers of the senate and decrease those of the tribunes? How lasting were his reforms?

What writings did Sulla leave behind him, and where do we get material taken from them?

VI. Describe the conspiracy against Julius Caesar, and argue either for or against the conspirators.

How did Caesar remember the Roman people in his will? How was it that Mark Antony succeeded to Caesar's power? Contrast the treatment of Cicero by Caesar and Antony.

## XENOPHON

[Time allowed, an hour and a half.]

I. Translate:

"Ἀπολελοίπασιν ἡμᾶς Ξενίας καὶ Πασίων. ἀλλ' εὖ γε μέντοι ἐπιστάσθωσαν ὅτι οὔτε ἀποδεδράκασιν· οἶδα γὰρ ὅπῃ οἴχονται· οὔτε ἀποπεφεύγασιν· ἔχω γὰρ τριήρεις ὥστε ἑλεῖν τὸ ἐκείνων πλοῖον· ἀλλὰ μὰ τοὺς θεοὺς οὐκ ἔγωγε αὐτοὺς διώξω, οὐδ' ἐρεῖ οὐδεὶς ὡς ἐγὼ ἕως μὲν ἂν παρῇ τις χρῶμαι, ἐπειδὰν δὲ ἀπιέναι βούληται, συλλαβὼν καὶ αὐτοὺς κακῶς ποιῶ καὶ τὰ χρήματα ἀποσυλῶ. ἀλλὰ ἰόντων, εἰδότες ὅτι κακίους εἰσὶ περὶ ἡμᾶς ἢ ἡμεῖς περὶ ἐκείνους. καίτοι ἔχω γε αὐτῶν καὶ τέκνα καὶ γυναῖκας ἐν Τράλλεσι φρουρούμενα· ἀλλ' οὐδὲ τούτων στερήσονται, ἀλλ' ἀπολήψονται τῆς πρόσθεν ἕνεκα περὶ ἐμὲ ἀρετῆς."

(*a*) Who says this, and in what circumstances? (*b*) Give the present indicative ("dictionary form") of *ἐπιστάσθωσαν*, *ἀποδεδρά-*

*κασιν, ἐλεῖν, ἐρεῖ, ἰόντων.* (*c*) What is the force of *ἀπο-* in *ἀποδεδράκασιν* and in *ἀπολήψονται*? (*d*) Explain the use of the mode in *παρῇ* (5), and *βούληται* (5). (*e*) What is noticeable about the voice of *στερήσονται* (9)?

II. Translate:

Ὁ δὲ ἀπεκρίνατο, "Ἀπαγγέλλετε τοίνυν αὐτῷ ὅτι μάχης δεῖ πρῶτον· ἄριστον γὰρ οὐκ ἔστιν, οὐδ' ὁ τολμήσων περὶ σπονδῶν λέγειν τοῖς Ἕλλησι μὴ πορίσας ἄριστον." ταῦτα ἀκούσαντες οἱ ἄγγελοι ἀπήλαυνον, καὶ ἦκον ταχύ· ᾧ καὶ δῆλον ἦν ὅτι ἐγγύς που βασιλεὺς ἦν ἢ ἄλλος τις ᾧ ἐπετέτακτο ταῦτα πράττειν· ἔλεγον δὲ ὅτι εἰκότα δοκοῖεν λέγειν βασιλεῖ, καὶ ἥκοιεν ἡγεμόνας ἔχοντες οἳ αὐτούς, ἐὰν σπονδαὶ γένωνται, ἄξουσιν ἔνθεν ἔξουσι τὰ ἐπιτήδεια. ὁ δὲ ἠρώτα εἰ αὐτοῖς τοῖς ἀνδράσι σπένδοιτο ἰοῦσι καὶ ἀπιοῦσιν, ἢ καὶ τοῖς ἄλλοις ἔσοιντο σπονδαί. οἱ δὲ, "Ἅπασιν," ἔφασαν, "μέχρι ἂν βασιλεῖ τὰ παρ' ὑμῶν διαγγελθῇ."

(*a*) Who are meant by *ὁ* and *αὐτῷ* (1)? (*b*) Explain the uses of the participle illustrated in *τολμήσων* (2), *πορίσας* (3), *ἰοῦσι* (8). (*c*) Explain the use of modes in *γένωνται* (7), *σπένδοιτο* (8), *διαγγελθῇ* (10). (*d*) What other word might have been used instead of *μέχρι* (9)?

III. Translate:

"Τοῦτο δὴ δεῖ λέγειν, πῶς ἂν πορευοίμεθά τε ὡς ἀσφαλέστατα, καὶ εἰ μάχεσθαι δέοι, ὡς κράτιστα μαχοίμεθα. πρῶτον μὲν τοίνυν," ἔφη, "δοκεῖ μοι κατακαῦσαι τὰς ἁμάξας ἃς ἔχομεν, ἵνα μὴ τὰ ζεύγη ἡμῶν στρατηγῇ, ἀλλὰ πορευώμεθα ὅπῃ ἂν τῇ στρατιᾷ συμφέρῃ· ἔπειτα καὶ τὰς σκηνὰς συγκατακαῦσαι. αὗται γὰρ αὖ ὄχλον μέν παρέχουσιν ἄγειν, συνωφελοῦσι δ' οὐδὲν οὔτε εἰς τὸ μάχεσθαι οὔτ' εἰς τὸ τὰ ἐπιτήδεια ἔχειν. ἔτι δὲ καὶ τῶν ἄλλων σκευῶν τὰ περιττὰ ἀπαλλάξωμεν, πλὴν ὅσα πολέμου ἕνεκεν ἢ σίτων ἢ ποτῶν ἔχομεν, ἵν' ὡς πλεῖστοι μὲν ἡμῶν ἐν τοῖς ὅπλοις ὦσιν, ὡς ἐλάχιστοι δὲ σκευοφορῶσι."

(*a*) Who says this, and in what circumstances? (*b*) Explain the use of modes in *πορευοίμεθα* (1), *δέοι* (2), *πορευώμεθα* (4), *ἀπαλλάξωμεν* (7). (*c*) Syntax of *κατακαῦσαι* (3), of *ἄγειν* (6), and of *ἔχειν* (7). (*d*) Give the date and the purpose of the expedition described in the Anabasis. (*e*) What made it more possible then than earlier to collect so large a mercenary Greek force? (*f*) What features of the organization, conduct, or life of the army seem most modern and American?

[NOTE: The following passage is supposed to be new to you. Before writing anything, read it through carefully, trying to recognize the meanings, forms, and syntax of the separate words. By that process find out the meaning of the whole—*what the author wished to say;* then write just that in English.]

IV. Translate:

**Καὶ Κῦρός γε, εἰ ἐβίωσεν, ἄριστος ἂν δοκεῖ ἄρχων γενέσθαι, καὶ τούτου τεκμήρια ἄλλα τε πολλὰ παρέσχηται, καὶ ὁπότε περὶ τῆς βασιλείας τῷ ἀδελφῷ ἐπορεύετο μαχούμενος, παρὰ μὲν Κύρου οὐδεὶς λέγεται αὐτομολῆσαι πρὸς βασιλέα, παρὰ δὲ βασιλέως πολλαὶ μυριάδες πρὸς Κῦρον. ἐγὼ δὲ καὶ τοῦτο ἡγοῦμαι μέγα τεκμήριον ἄρχοντος ἀρετῆς εἶναι, ᾧ ἂν ἑκόντες πείθωνται καὶ ἐν τοῖς δεινοῖς παραμένειν ἐθέλωσιν. ἐκείνῳ δὲ οἱ φίλοι ζῶντί τε συνεμάχοντο καὶ ἀποθανόντι συναπέθανον πάντες περὶ τὸν νεκρὸν μαχόμενοι πλὴν Ἀριαίου· Ἀριαῖος δ' ἔτυχεν ἐπὶ τῷ εὐωνύμῳ κέρατι τεταγμένος.**

*βιόω live.* *τεκμήριον mark, evidence.*

## HOMER

[Time allowed, an hour and a quarter.]

[NOTE.—I and II are required of all candidates. In addition III and IV (or V) are required of those who have prepared in the *Iliad*, and VI and VII (or VIII and IX) of those who have prepared in the *Odyssey*.]

I. Translate (*not previously read*):

[Nestor reminds Patroclus of his enlistment and that of Achilles.]

**"νῶϊ δέ τ' ἔνδον ἐόντες, ἐγὼ καὶ δῖος Ὀδυσσεύς,**
**πάντα μάλ' ἐν μεγάροις ἠκούομεν ὡς ἐπέτελλεν.**
**Πηλῆος δ' ἱκόμεσθα δόμους εὐ ναιετάοντας**
**λαὸν ἀγείροντες κατ' Ἀχαΐδα πουλυβότειραν.**
**ἔνθα δ' ἔπειθ' ἥρωα Μενοίτιον εὕρομεν ἔνδον**
**ἠδὲ σέ, πὰρ δ' Ἀχιλῆα. γέρων δ' ἱππηλάτα Πηλεὺς**
**πίονα μηρί' ἔκαιε βοὸς Διὶ τερπικεραύνῳ**
**αὐλῆς ἐν χόρτῳ· ἔχε δὲ χρύσειον ἄλεισον,**
**σπένδων αἴθοπα οἶνον ἐπ' αἰθομένοις ἱεροῖσιν.**
**σφῶϊ μὲν ἀμφὶ βοὸς ἔπετον κρέα, νῶϊ δ' ἔπειτα**
**στῆμεν ἐνὶ προθύροισι· ταφὼν δ' ἀνόρουσεν Ἀχιλλεύς,**
**ἐς δ' ἄγε χειρὸς ἑλὼν, κατὰ δ' ἑδριάασθαι ἄνωγεν."**

*πουλοβότειρα: fruitful.* *χόρτος: enclosure.* *ἄλεισον: cup.*
*ταφών: wondering.* *ἑδριάομαι: cf. ἕδρη, ἕδος.*

II. *a*. What is the traditional date of the fall of Troy? *b*. Present any evidence for or against a historic basis for the Homeric story. *c*. How long a time is occupied by the action of the *Iliad*? How long by the action of the *Odyssey*? *d*. About how many verses are contained in the *Iliad*? How many in the *Odyssey*? *e*. What Homeric forms do you know for the Attic εἶναι? What for ἐμοῦ? *f*. Give the Attic forms for τοῖο, ἴδμεν, βῇ, θέμεναι, κέν.

III. Translate:

"διογενὲς Λαερτιάδη, πολυμήχαν' Ὀδυσσεῦ,
οὕτω δὴ οἰκόνδε, φίλην ἐς πατρίδα γαῖαν,
φεύξεσθ' ἐν νήεσσι πολυκλῄϊσι πεσόντες,
κἀδ δέ κεν εὐχωλὴν Πριάμῳ καὶ Τρωσὶ λίποιτε
Ἀργείην Ἑλένην, ἧς εἵνεκα πολλοὶ Ἀχαιῶν
ἐν Τροίῃ ἀπόλοντο, φίλης ἀπὸ πατρίδος αἴης;
ἀλλ' ἴθι νῦν κατὰ λαὸν Ἀχαιῶν, μηδέ τ' ἐρώει,
σοῖς δ' ἀγανοῖς ἐπέεσσιν ἐρήτυε φῶτα ἕκαστον,
μηδὲ ἕα νῆας ἅλαδ' ἑλκέμεν ἀμφιελίσσας."

*a*. Give a metrical scheme for lines 7 and 9, marking the caesural pauses, and explaining any metrical peculiarities. *b*. Who speaks these verses? *c*. Explain the form and state the construction of κἀδ (4). *d*. State the construction of εὐχωλήν (4).

IV. Translate:

"ἦλυθες ἐκ πολέμου· ὡς ὤφελες αὐτόθ' ὀλέσθαι,
ἀνδρὶ δαμεὶς κρατερῷ, ὅς ἐμὸς πρότερος πόσις ἦεν.
ἦ μὲν δὴ πρίν γ' εὔχε' ἀρηϊφίλου Μενελάου
σῇ τε βίῃ καὶ χερσὶ καὶ ἔγχεϊ φέρτερος εἶναι·
ἀλλ' ἴθι νῦν προκάλεσσαι ἀρηΐφιλον Μενέλαον
ἐξαῦτις μαχέσασθαι ἐναντίον. ἀλλά σ' ἔγωγε
παύεσθαι κέλομαι, μηδὲ ξανθῷ Μενελάῳ
ἀντίβιον πόλεμον πολεμίζειν ἠδὲ μάχεσθαι
ἀφραδέως, μή πως τάχ' ὑπ' αὐτοῦ δουρὶ δαμήῃς."

*a*. Explain the force of the tense in ὤφελες (1). *b*. State the construction of Μενελάῳ (7), πόλεμον (8). *c*. Give the Attic forms for ἦλυθες (1), δαμήῃς (9). *d*. Comment on the separation of ἀφραδέως (9) from the word which it modifies.

[For IV the candidate may substitute V.]

V. Translate:

αὐτίκ' ἀπὸ κρατὸς κόρυθ' εἵλετο φαίδιμος Ἕκτωρ,
καὶ τὴν μὲν κατέθηκεν ἐπὶ χθονὶ παμφανόωσαν·

αὐτὰρ ὅ γ' ὃν φίλον υἱὸν ἐπεὶ κύσε πῆλε τε χερσὶν,
εἶπεν ἐπευξάμενος Διί τ' ἄλλοισίν τε θεοῖσιν
" Ζεῦ ἄλλοι τε θεοὶ, δότε δὴ καὶ τόνδε γενέσθαι
παῖδ' ἐμὸν, ὡς καὶ ἐγώ περ, ἀριπρεπέα Τρώεσσιν,
ὧδε βίην τ' ἀγαθὸν καὶ Ἰλίου ἶφι ἀνάσσειν·
καί ποτέ τις εἴπῃσι 'πατρός γ' ὅδε πολλὸν ἀμείνων'
ἐκ πολέμου ἀνιόντα· φέροι δ' ἔναρα βροτόεντα
κτείνας δήϊον ἄνδρα, χαρείη δὲ φρένα μήτηρ."

*a*. State the connection of these verses. *b*. State the construction of ἀριπρεπέα, Τρώεσσιν (9), Ἰλίου, ἀνάσσειν (7), πολλόν (8), ἀνιόντα (9). *c*. What is the nominative of κρατός (1)? In what two ways is this κρατός distinguished from the word which means *strength*?

[In addition to I and II for candidates who have prepared in the *Odyssey*.]

VI. Translate:

" εἰ γὰρ νῦν ἐλθὼν δόμου ἐν πρώτῃσι θύρῃσι
σταίη, ἔχων πήληκα' καὶ ἀσπίδα καὶ δύο δοῦρε,
τοῖος ἐὼν οἷόν μιν ἐγὼ τὰ πρῶτ' ἐνόησα
οἴκῳ ἐν ἡμετέρῳ πίνοντά τε τερπόμενόν τε,
ἐξ Ἐφύρης ἀνιόντα παρ' Ἴλου Μερμερίδαο·
ᾧχετο γὰρ καὶ κεῖσε θοῇς ἐπὶ νηὸς Ὀδυσσεὺς
φάρμακον ἀνδροφόνον διζήμενος, ὄφρα οἱ εἴη
ἰοὺς χρίεσθαι χαλκήρεας· ἀλλ' ὁ μὲν οὔ οἱ
δῶκεν, ἐπεί ῥα θεοὺς νεμεσίζετο αἰὲν ἐόντας."

*a*. State the construction of σταίη (2), χρίεσθαι (8). *b*. To what does κεῖσε (6) refer? *c*. What piece of armor is noticeably absent from 2?

VII. Translate:

" ἦ τοι μὲν τάδε καὐτὸς ὀίεαι, ὥς κεν ἐτύχθη,
εἰ ζωόν γ' Αἴγισθον ἐνὶ μεγάροισιν ἔτετμεν
Ἀτρείδης Τροίηθεν ἰὼν, ξανθὸς Μενέλαος·
τῷ κέ οἱ οὐδὲ θανόντι χυτὴν ἐπὶ γαῖαν ἔχευαν,
ἀλλ' ἄρα τόν γε κύνες τε καὶ οἰωνοὶ κατέδαψαν
κείμενον ἐν πεδίῳ ἑκὰς Ἄργεος, οὐδέ κέ τίς μιν
κλαῦσεν Ἀχαιάδων· μάλα γὰρ μέγα μήσατο ἔργον.
ἡμεῖς μὲν γὰρ κεῖθι πολέας τελέοντες ἀέθλους
ἤμεθ'· ὁ δ' εὔκηλος μυχῷ Ἄργεος ἱπποβότοιο
πόλλ' Ἀγαμεμνονέην ἄλοχον θέλγεσκε ἔπεσσιν."

*a*. Who speaks these lines, and to whom? *b*. Give a metrical scheme for lines 7 and 10, and explain any metrical peculiarities. *c*. To what does τάδε (1) refer? *d*. State the construction of **Μενέλαος** (3), τῳ, οἱ, ἐπί (4), πόλλ' (10). *e*. Give the Attic forms for ἔχευαν (4), πολέας (8). *f*. Comment on the accent of πόλλ' (10).

[For VI and VII the candidates may substitute VIII and IX.]

VIII. Translate:

"ἐλθόντες δ' ἠβαιὸν ἀπὸ σπείους τε καὶ αὐλῆς
πρῶτος ὑπ' ἀρνειοῦ λυόμην, ὑπέλυσα δ' ἑταίρους.
καρπαλίμως δέ τὰ μῆλα ταναύποδα, πίονα δημῷ,
πολλὰ περιτροπέοντες ἐλαύνομεν, ὄφρ' ἐπὶ νῆα
ἱκόμεθ' · ἀσπάσιοι δὲ φίλοις ἑτάροισι φάνημεν,
οἳ φύγομεν θάνατον · τοὺς δὲ στενάχοντο γοῶντες.
ἀλλ' ἐγὼ οὐκ εἴων, ἀνὰ δ' ὀφρύσι νεῦον ἑκάστῳ,
κλαίειν · ἀλλ' ἐκέλευσα θοῶς καλλίτριχα μῆλα
πόλλ' ἐν νηὶ βαλόντας ἐπιπλεῖν ἁλμυρὸν ὕδωρ."

*a*. State the construction of ἀσπάσιοι (5), ἀνά, ὀφρύσι (7), κλαίειν (8). *b*. Explain the form σπείους (1). What is its nominative? *c*. State the force of the preposition and case in ὑπ' ἀρνειοῦ (2), *d*. What is the tense of ἐλαύνομεν (4)? Prove it. *e*. What is the special force of the tense of στενάχοντο (6)?

IX. Translate:

ἡ δὲ μάλ' αὐτίκα πατρὸς ἐπέφραδεν ὑψερεφὲς δῶ.
οἱ δ' ἐπεὶ εἰσῆλθον κλυτὰ δώματα, τὴν δὲ γυναῖκα
εὗρον ὅσην τ' ὄρεος κορυφὴν, κατὰ δ' ἔστυγον αὐτήν.
ἡ δ' αἶψ' ἐξ ἀγορῆς ἐκάλει κλυτὸν Ἀντιφατῆα,
ὃν πόσιν, ὃς δὴ τοῖσιν ἐμήσατο λυγρὸν ὄλεθρον.
αὐτίχ' ἕνα μάρψας ἑτάρων ὥπλίσσατο δεῖπνον ·
τὼ δὲ δύ' ἀΐξαντε φυγῇ ἐπὶ νῆας ἱκέσθην.
αὐτὰρ ὁ τεῦχε βοὴν διὰ ἄστεος · οἱ δ' ἀΐοντες
φοίτων ἴφθιμοι Λαιστρυγόνες ἄλλοθεν ἄλλος,
μυρίοι, οὐκ ἀνδρεσσιν ἐοικότες, ἀλλὰ Γίγασιν.

*a*. What is the tense of ἐπέφραδεν (1)? Comment on the form. *b*. State the construction of the second δέ (2), ὅσην, κατά (3), **Λαιστρυγόνες** (9). *c*. Give a metrical scheme for lines 7 and 8, and explain any metrical peculiarities.

## GREEK GRAMMAR

[Time allowed, one hour.]

[NOTE.—Do not write a translation of the passage set. In your answers write all Greek words with accents.]

Xenophon, *Anabasis* ii. 1. 3, 4:

Οὗτοι ἔλεγον ὅτι Κῦρος μὲν τέθνηκεν, Ἀριαῖος δὲ πεφευγὼς ἐν τῷ σταθμῷ εἴη μετὰ τῶν ἄλλων βαρβάρων ὅθεν τῇ προτεραίᾳ ὥρμηντο, καὶ λέγοι ὅτι ταύτην μὲν τὴν ἡμέραν περιμείνειεν ἂν αὐτούς, εἰ μέλλοιεν ἥκειν, τῇ δὲ ἄλλῃ ἀπιέναι φαίη ἐπὶ Ἰωνίας, ὅθενπερ ἦλθε. ταῦτα ἀκούσαντες οἱ στρατηγοὶ καὶ οἱ ἄλλοι Ἕλληνες πυνθανόμενοι βαρέως ἔφερον. Κλέαρχος δὲ τάδε εἶπεν, "Ἀλλ' ὤφελε μὲν Κῦρος ζῆν· ἐπεὶ δὲ τετελεύτηκεν, ἀπαγγέλλετε Ἀριαίῳ ὅτι ἡμεῖς νικῶμέν τε βασιλέα καὶ ὡς ὁρᾶτε οὐδεὶς ἔτι ἡμῖν μάχεται, καὶ εἰ μὴ ὑμεῖς ἦλθετε, ἐπορευόμεθα ἂν ἐπὶ βασιλέα. ἐπαγγελλόμεθα δὲ Ἀριαίῳ, ἐὰν ἐνθάδε ἔλθῃ, εἰς τὸν θρόνον τὸν βασίλειον καθιεῖν αὐτόν· τῶν γὰρ μάχῃ νικώντων καὶ τὸ ἄρχειν ἐστί."

1. Inflect in all numbers βασιλέα (8), ὑμεῖς (8). Inflect in the singular οὗτοι (1), οὐδείς (8).

2. Name the voice, mode, and tense, of πυνθανόμενοι (5), ἀπαγγέλλετε (7), ὁρᾶτε (8), νικώντων (11); and give the principal parts of each of these verbs.

Inflect ἐπορευόμεθα (9) in the present subjunctive active. Write the synopsis (first form in each mode) in the present active of εἴη (2), τετελεύτηκεν (7).

3. State the construction of προτεραίᾳ (2) and ἡμέραν (3), and the difference in the use of the cases in these words.

Explain the construction of ἡμῖν (8).

What is the use of ἄν (9)?

Explain the use of the mode in μέλλοιεν (3), ἔλθῃ (10).

Explain the use of both mode and tense in ὤφελε (6), ἦλθετε (8), φαίη (4).

4. Translate: (*a*) οὗτος ὁ ἀνήρ, ὁ ἀνὴρ αὐτός, ὁ αὐτὸς ἀνήρ. (*b*) ἀγαθὸς ὁ ἀνήρ, ὁ ἀγαθὸς ἀνήρ, ὁ ἀνὴρ ὁ ἀγαθός. (*c*) μετὰ ταῦτα, μετὰ τούτων. (*d*) πρὸς ταῦτα, πρὸς τούτοις.

## GREEK COMPOSITION

[Time allowed, 30 minutes.]

(NOTE. All Greek words are to be written with accents.)

On the same day Tissaphernes sent a faithful messenger to the camp to say to Clearchus that if he would become a friend of the king he would obtain honor and riches from the Persians. But Clearchus thinking it unworthy (ἀνάξιος) to abandon his own (men) refused to do so. Accordingly the messenger went back to Tissaphernes and reported his answer (what he answered). On hearing this, the satrap turned to Ariæus who happened to be there, and said, "Would that I had a hundred such men. We shall never conquer the Greeks if they thus remain faithful to one another."

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## GREEK HISTORY

[Time allowed, 45 minutes.]

N. B.—No one candidate is expected to answer all the questions set. The paper must test the powers of students prepared under many different systems. Quality rather than quantity of matter written will be decisive. The second group of questions in each division may be regarded as optional.

I. What is meant by the consolidation of Attica under Theseus? What historical significance has the myth?

Mention some legendary exploits of Thesus. What was the place and manner of his death? When and how were his remains brought to Athens?

II. When was Miletus destroyed by the Persians? How was her fate a rebuke and a warning to Athens?

How did the Ionian cities of Ephesus and Miletus compare with Athens at the opening of the fifth century B. C.? What Athenian poet dramatized the fall of Miletus, and with what success?

III. What plans were interrupted and what trouble brought on by the great earthquake at Sparta in 464 B. C.?

To what Greek writers would you go for a description of this earthquake? How were politics at Athens eventually affected by it?

IV. Describe briefly the career of Pericles after the outbreak of the Peloponnesian War. What criticism may now be made upon his statesmanship?

What tribute is paid to Pericles by Thucydides? What dying words are attributed to him by Plutarch? Could they have been justified?

V. How did Philip of Macedon become president of the Amphictyonic Council, and what use did he make of the position?

Argue that the battle of Chaeroneia was, or was not, a disaster for Greece. What were Philip's plans at the time of his death?

VI. With what sculptures were the pediments of the Parthenon adorned, and to what artist are they attributed?

Who was the greatest painter at Athens during the period immediately following the Persian Wars? What were some of his compositions? Who was the most popular dramatic poet of Athens for the world outside of Athens? What stories illustrate this?

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## ALGEBRA (*A*)

[Time allowed for Algebra (*a*) and (*b*), an hour and a half.]

1. Find the value of

$$a-\{5b-[a-(3c-3b)+2c-3(a-2b-c)]\}$$

where $a=-3$; $b=4$; $c=-5$.

2. (a). Factor $(x^2-y^2)^2-(x^2-xy)^2$

(b). Simplify $\dfrac{x^3-8y^3}{x^2-y^2} \times \dfrac{x+y}{x^2+2xy+4y^2}$.

3. Simplify $(a^{\frac{5}{2}}-a^2b^{\frac{1}{2}}-a^{\frac{1}{2}}b^2+b^{\frac{5}{2}}) \div (a^{\frac{3}{2}}-ab^{\frac{1}{2}}+a^{\frac{1}{2}}b-b^{\frac{3}{2}})$.

4. Solve $\dfrac{x^2+a^2}{4x^2-a^2}-\dfrac{x}{2x+a}=-\dfrac{1}{4}$.

5. (a). Rationalize the denominator of

$$\frac{1}{\sqrt{10}-\sqrt{2}-\sqrt{3}}.$$

(b). Which is the greatest,

$$\sqrt{\frac{4}{3}},\ \sqrt[3]{\frac{3}{2}},\ \text{or}\ \sqrt[4]{\frac{7}{4}}$$

6. A has \$125.00 and B has \$50.00. A spends twice as much money as B, and then has left three times as much as B. How much does each spend?

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## ALGEBRA (*B*)

1. Solve $ax^2+(a+2)x+2=0$.

2. Solve
$$x^2-xy=48$$
$$xy-y^2=12.$$

3. (a) If $a : b=c : d$, prove that
$a^2+b^2 : a^2-b^2=c^2+d^2 : c^2-d^2$.

(b) If $a : b=c : d=e : f$, show that
$a+c+e : b+d+f=a : b=c : d=e : f$.

4. Solve $2(\sqrt{x}-3)^2-3=\sqrt{x}$.

5. The sum of the first three terms of a geometrical progression is 21, and the sum of their squares is 189. What is the first term?

## GEOMETRY (*A*)

[Time allowed for Geometry (*a*) and (*b*), an hour and a half.]

1. If a straight line divides two sides of a triangle proportionally, it is parallel to the base.

2. What is the locus of points equidistant from the sides of an angle? Prove your statement.

3. The areas of two similar triangles are to each other as the squares on two homologous sides.

4. The area of the regular inscribed hexagon is equal to twice the area of the inscribed equilateral triangle and half the area of the circumscribed equilateral triangle.

5. Construct a circle passing through two given points and tangent to a given straight line.

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## GEOMETRY (*B*)

[One problem must be solved by logarithms.]

1. The radius of a circle is 36 feet. Find the radius of the concentric circle which occupies ¼ the area.

2. A chord of a segment of a circle is 34 inches in length, and the radius of the circle is 60 inches. Find the height of the segment of the circle.

3. A wheel of radius .94 meter made 3657 revolutions in going from one town to another. What is the distance, in kilometers, between the towns? in miles?

4. In a triangle whose base is 18 centimeters and area 124 square centimeters, a line is drawn parallel to the base, 3 inches from the base. Find the area of the trapezoid cut off by this line.

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## MATHEMATICS A1.

[Time allowed, two hours.]

[One of the first two questions in each subject may be omitted.]

### *Solid Geometry.*

1. Prove that if one of two parallel lines is perpendicular to a plane the other is also perpendicular to the plane.

2. If the area of a sphere is 50 square inches find its volume.

3. Prove that the plane passed through the diagonally opposite edges of a parallelopiped divides it into two equivalent triangular prisms.

4. State the rule for finding the volume of a cone and quote in logical order the theorems which connect this rule with the propositions of example 3.

5. Explain how to construct a plane passing through a given point
   (*a*) perpendicular to a given line.
   (*b*) parallel to two given not intersecting and non-parallel lines.

State in each case a proposition that proves your construction correct.

*Plane Trigonometry.*

6. If $\sec x = 2$ find $\tan x$ and $\cos 2x$.

7. Find all the angles less than 360° which satisfy the equation
$$\tan x + 2 \sin x = 0.$$

8. Prove $(\sin x - \cos x)^2 = 1 - \sin 2x$.

9. If two sides of a triangle are 23 and 49 respectively, and the included angle is 42° 34′, find the remaining side.

*Analytic Geometry.*

10. Write the equation of the line through the points (1, 2) and (−2, 3). What is the value of the slope of this line?

11. Define a parabola and derive its equation.

12. Determine the points of intersection of
$$y^2 = 4x$$
and
$$4x - 3y + 2 = 0.$$
Plot these curves on the same axes.
Is the point (7, − 10) on either of them?

13. Write the equation of the ellipse whose foci are the points (0, +4) and (0, −4) and whose minor axis is 3. What is the length of its latus rectum (or parameter)?

*Advanced Algebra.*

14. Form the equation whose three roots are 2 and $2 \pm 3\sqrt{-1}$. Determine (without solving) the nature of the roots of
$$x^2 - 3x + 4 = 0.$$

15. Resolve into partial fractions
$$\frac{3x^2 + x - 2}{(x-2)^2(1-2x)}.$$

16. Define a logarithm. Find the logarithm of 16 to the base $\sqrt{2}$. Given log. 2 = .3010, find log. of $\frac{64}{\sqrt{2}}$

17. Plot the equation $x^3 - 8x^2 + 17x - 4 = y$. Find correct to two decimal places the negative root of the left hand member when $y = 0$.

## FRENCH (*A*)

[Time allowed, one hour.]

I. Translate:

Malheureusement, ou plutôt heureusement, l'effet *qu'elle s'était promis* de sa cruauté envers le pauvre cheval était *perdu* en grande partie pour Orso. Il ne *doutait* pas que cette mutilation sauvage ne *fût* l'oeuvre d'un de ses ennemis, et c'était Orlanduccio qu'il soupçonnait particulièrement; mais il ne *croyait* pas que ce jeune homme, provoqué et frappé par lui, *eût* effacé sa honte en fendant l'oreille à un cheval. Au contraire, cette basse et ridicule vengeance augmentait son mépris pour ses adversaires, et il pensait maintenant avec le préfet que de pareilles gens ne méritaient pas de se mesurer avec lui. Aussitôt qu'il *put* se *faire entendre*, il *déclara* à ses partisans confondus qu'ils eussent à *renoncer* à leurs intentions belliqueuses, et que la justice, qui *allait venir, vengerait* fort bien l'oreille de son cheval. (Mérimée: *Colomba.*)

II. Inflect the tenses of *qu'elle s'était promis, fût, put, déclara.* Inflect the present indicative and subjunctive of *perdu, croyait, faire, renoncer, allait, venir.*

Give the five principal parts of *doutait, eût, entendre, vengerait:* also of the verbs *lever, punir, recevoir.*

III. Translate into French:

1. I gave her a book. They did not give her a book. Give it to me. Don't give it to him. 2. There are good words and bad ones. 3. When it is fine weather we shall go to France. 4. Have you told (*dire*) them that we cannot see one another? 5. You must finish this letter, not that one.

IV. Indicate in approximate English spelling the sounds: *ai, ai* before *l, au, oi;* the pronunciation of *donner, fille, yeux, machine, Louvre, enfant, fin.*

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## GERMAN (*A*)

[Time allowed, an hour and a quarter.]

I. Translate:

„Auch darüber," verſetzte Herr Blechſchmied, „bin ich im Stand, euch zu belehren. Vor ein paar Jahren, als mein Sohn, der Doctor Blechſchmied, der, wie ihr wißt, ein Werk über dieſe Krankheit geſchrieben hat, noch ſtudierte, habe ich ihn einmal auf der Univerſität beſucht. Bei dieſer Gelegenheit lernte ich einen ſehr intereſſanten jungen Mann kennen, der gleichfalls Student war. Dieſer erbot ſich, da mein Sohn am Vormittag im Spital zu tun hatte, mir die Stadt zu zeigen. Da ſahen wir

unter Anderm auch ein Bild von einem berühmten Maler, welches eine Seeſchlacht vorſtellte, und mein Führer, der Student, explizierte mir die ganze Begebenheit. Der, welcher die Schlacht verlor, war kein anderer als der König Xerres, den jeder Gebildete aus dem A-B-C-buchvers kennt; den Namen des Siegers habe ich vergeſſen, der iſt auch Nebenſache, die Inſel aber, bei welcher die Schlacht geſchlagen wurde, hieß Salamis."

II. Put into German:

1. This is not a large village, but the streets are broad and the houses are better than in many small cities.

2. Please bring the knives, forks and spoons, and then place the chairs around the table.

3. That book which you were reading, was not written by him, but by his older sister, the one you see every day.

4. He would have been able to do it, if he had had more time.

5. When I was asked where he was, I did not know what I ought to say.

III. Give the principal parts (with the third pers. sing. pres. indic. act. and first pers. sing. pret. subj. act.) of the verbs:
wißt (2), geſchrieben (3), kennen (5), erbot ſich (5), tun (6), ſahen (6), explizierte (8), vergeſſen (10), geſchlagen (11), hieß (12).

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## GERMAN (*B*)

[Time allowed, two hours.]

[The translation should be close, but in idiomatic and clear English. At least thirty minutes should be allowed for Question II.]

I. Translate:

A. (Heine: *Reisebilder.*)

Es iſt ein gutes Zeichen, wenn die Weiber lächeln, ſagt ein chineſiſcher Schriftſteller, und ein deutſcher Schriftſteller war eben dieſer Meinung, als er in Südtirol, wo Italien beginnt, einem Berge vorbeikam, an deſſen Fuße auf einem nicht ſehr hohen Steindamm eines von jenen Häuschen ſtand, die mit ihrer traulichen Galerie und ihren naiven Malereien uns ſo lieblich anſehen. Auf der einen Seite ſtand ein großes hölzernes Krucifix das einem jungen Weinſtock als Stütze diente, ſo daß es faſt ſchaurig heiter ausſah, wie das Leben den Tod, die ſaftig grünen Reben den blutigen Leib und die gekreuzigten Arme und Beine des Heilands umrankten. Auf der andern Seite des Häuschens ſtand ein runder Taubenkofen, deſſen gefiedertes Völkchen flog hin und her, und eine ganz beſonders anmutig weiße Taube ſaß auf dem hübſchen Spitzdächlein, das wie die fromme Steinkrone einer Heiligenniſche über dem Haupte der ſchönen Spinnerin hervorragte. Dieſe ſaß auf der kleinen Galerie und ſpann, nicht nach der deutſchen Spinnrabmethode, ſondern nach jener uralten Weiſe, wo ein flachsumzogener Rocken unter dem Arme gehalten wird, und der abgeſponnene Faden an der freihängenden Spindel hinunterläuft.

B. (Freytag: *Aus dem Mittelalter.*)

Man ist gewöhnt Papst Gregor VII. als Vorkämpfer des Romanismus gegen deutsche Nationalität zu betrachten, aber er verderbte die Stellung der Kaiser im Reiche nur deshalb, weil er die deutsche Auffassung des Kirchenglaubens gegen den Staat anwandte. Er selbst führte einen deutschen Namen, der in jenen Jahrhunderten in aller Mund war, weil er einem Lieblingshelden unserer epischen Sage zukam; Hildebrand hatte seit seiner Jugend und später viel mit Deutschen verkehrt und unter ihnen gelebt; er war von niedriger Herkunft. Auch sonst mahnt sein ganzes Wesen an deutsche Art, gleichviel ob durch gotisches oder durch langobardisches Blut, oder in zufälliger Ähnlichkeit. Seine Frömmigkeit ist nicht frei von asketischem Bedürfnis, aber er hat gar nichts von dem hochgespannten frommen Enthusiasmus, welcher dem romanischen Büßer eigen war. Die Idee, welche ihn erfüllt und seine Tatkraft so gewaltig spannt, wie selten bei einem Menschen, ist die politische Idee der Königsherrschaft Christi über geschworne Mannen.

C. (Voss: *Der siebzigste Geburtstag.*)

Denn er feierte heute den siebzigsten frohen Geburtstag,
Froh des erlebten Heils. Sein einziger Sohn, Zacharias,
Welcher als Kind auf dem Schemel gepredigt und, von dem Pfarrer
Auserseh'n für die Kirche, mit Not vollendet die Laufbahn
Durch die lateinische Schul' und die teuere Akademie durch,
Der war jetzt einhellig erwählter Pfarrer in Merlitz
Und seit kurzem vermählt mit der wirtlichen Tochter des Vorfahrs.
Fernher hatte der Sohn zur Verherrlichung seines Geburtstags
Edeln Tabak mit der Fracht und stärkende Weine gesendet,
Auch in dem Briefe gelobt, er selbst und die freundliche Gattin,
Hemmeten nicht Hohlweg' und verschneiete Gründe die Durchfahrt,
Sicherlich kämen beide, das Fest mit dem Vater zu feiern
Und zu empfangen den Segen von ihm und der würdigen Mutter.
Eine versiegelte Flasche mit Rheinwein hatte der Vater
Froh sich gespendet zum Mahl und mit Mütterchen auf die Gesundheit
Ihres Sohnes Zacharias geklingt und der freundlichen Gattin.

II. Put into German:

A poor young workman[1] once came to Amsterdam to seek work. In his own village in Germany he had always been happy and contented, because all the people there were as poor as he and had to work hard. But in this large city everything was different.[2] There were so many beautiful houses and rich people that he became discontented with his lot.[3] While he was wandering in one of the most beautiful streets of the town, he saw a house which was larger and more magnificent[4] than the others. "What a beautiful house," thought he, "the windows are bigger than the doors in our village. Oh, why, should one man have such a house and so many have none."

[1] der Arbeiter. [2] anders. [3] das Los. [4] herrlich.

## GERMAN (*C*)

[Time allowed, two hours.]

[The translation should be close, but in idiomatic and clear English. At least thirty minutes should be allowed for Question II.]

I. Translate:

A. (Schönbach: *Ralph Waldo Emerson und sein Kreis.*)

Noch sind unter Emersons Freunden nicht die bedeutendsten Schriftsteller angeführt worden; mir lag mehr daran, solche zu nennen, die dem deutschen Publikum wenig oder gar nicht bekannt sind. Da müßte ich vor allem über Nathaniel Hawthorne sprechen, bis zur Stunde den größten Dichter Amerikas. Alles, was über die Beschaffenheit der von Hawthorne gewählten Aufgaben, die kleinen Erzählungen und die vollendeten größeren Werke lehren, verbunden mit dem, was über seine Pläne und unerfüllten Vorhaben aus den Notizbüchern zu erfahren ist, bringt uns darauf, daß den Problemen des Dichters in ihrer einfachsten formelhaften Fixierung schon etwas Gemeinsames anhaftet; sie befassen sich alle mit dem Entstehen der „Schuld," des „Bösen," suchen die vielgestaltigen Folgen, die mannigfachen Verhältnisse, welche sich zwischen der „Schuld" und den Zuständen des modernen Lebens entwickeln, auf den simpelsten Ausdruck gebracht, poetisch zu behandeln. Die „Schuld" ist nun immer nur die „Sünde." Bis in die letzten Schlupfwinkel spürt ihr Hawthorne nach, in den täuschendsten Verkleidungen erkennt er sie, ihre feinsten Bezüge zu allen Herzensregungen deckt er auf. Darin besitzt er die Spitzfindigkeit der alten calvinistischen Prediger der Kolonialzeit und etwas von dem genialen Combinationsvermögen des Philosophen Jonathan Edwards.

B. (Sybel: *Die Deutschen bei ihrem Eintritt in die Geschichte.*)

Welcher Mensch, der für sein Vaterland und sein Volk ein Herz hat, ist nicht schon durch die historische Betrachtung zu der schwer wiegenden Frage geführt worden, auf welcher Stufe des geschichtlichen Lebensgangs seine Nation sich befindet, ob in der ersten Mannesblüte, vor deren Blicken sich noch eine unbegrenzte Zukunft des Wachsens und Voranschreitens ausdehnt, ob an der Schwelle des Greisenalters, das ohne eigene Schöpferkraft nur von der Erinnerung lebt an Zeiten, die vorüber sind. Und nun scheint es mir, daß unser Volk keine Ursache hat, eine solche Selbstprüfung zu scheuen. Wohl würde jeder von unseren Altvorderen bei dem äußern Anblick des Landes und der Menschen sich eine andere Welt versetzt glauben; aber der innere Grundstoff und der sittliche Bau unserer Naturen zeigen noch immer dieselben Merkmale; noch immer ist die Masse der Nation erfüllt von mächtiger Kampfbereitschaft neben allem Drange friedfertig schaffender Tätigkeit; noch immer zeigt sich bei ihr jene unvergleichliche Mischung festen Heimatssinnes und reger Wanderlust; noch immer klingt im Dunkel der Waldeinsamkeit jeder tiefe Ton der Andacht und jeder helle Klang der Poesie im Herzen des Volkes wieder